Settlement Commissioner's Review of the Assessment Reports* of the Firozpur and Nuh Tahsils.

THE tract dealt with in these two reports comprises along its eastern boundary a strip of the high-lying land above the Jamna bank, known as Bangar,

which slopes eastward down towards the Jamua and westwards down to a depression that, extending from north to south down the middle, used at one time to receive the drainage from hills, valleys and torrents in the south-west, west and north of the tract and, while retuning part of the diamage in thile or swamps, conveyed part away to Bhartpur territory to the south. In the south-west corner, west of this depression, comes down the Landoha valley, the upper (and southern) portion of which is in Alwar territory. It is enclosed between two parallel ranges of low hills, the westernmost of which extends northwards so as to form the western boundary of the tract throughout. except in the north-west corner, where the Taoru plateau, sloping down west of the range, is included within the limits of the tract. The range confining the Landoha valley on the east sinks down into the plain towards the centre of the tract, and after forming up to that point the watershed between the Landoba on the west and the dramage depression on the east, there permits the former The tendency of the Laudoha water, however, appears at to join the latter a comparatively recent time to have been to turn, not south-eastwards into this depression, but northwards into the Kotla ihil, one of the swamps above referred to, which lies immediately under the westernmost range of hills, and it was to guide it away from this, and into the central drainage depression that one of the oldest and largest of the many embankments which are fully described in paragraph 4 of the Nuh report and paragraphs 2 and 3 of the Firozpur report, viz, the Kotla band, was constructed Towards this central point, also, the flood Water brought by torrents using in the north in the hills of the Gurgaen tahsil and flowing southwards, had a strong inclination to ture, or such of it as was left after it had filled the swamps in the north-eastern extremity of the tract, of which the largest were the Khalilpur and Chandain phils The object of the first s-ries of embankments described in detail in these two reports, the series, that is, that was constructed before the first regular settlement, was to keep the flood water of the Landoha valley to the south out of these swamps and to distribute it, and the overflow from the swamps, beneficially over cultivated land, passing the surplus down the central drainage depression to Bhartpur The origin iters of these embankments had for their object to drain a waterlogged and unhealthy tract In constructing the later (Kuisari) embankments within this trict, Mi Maconachie had a similar object, riz, to keep the flood water of the northern torrents out of the swamps and to spread it over the His scheme, however, also included a still liter series of combankments in the Gurgaon tabul which was intended, on the other hand, to hold up the nor he ern torionis is near their sources as possible and util ze them there. Extinded training works undertaken by the Alwar Dubar 11 the Upper Landoha vailey have led to the utilization of more wate in that State Con-equently, for ien years or more, title il od water has come either from the north or from the south, and the embankmen's within these two talks le have had lit le These tin years, however, have been years of deficient rainfail, and it may be going too far their that the later systems of embankments have so effectually controlled the torrents above as not only to render the original system unnecessire but also to change essentially the nature of the low-lang land in the true now under consideration by depriving it of the flood was er which was borefi tal to it. The question is one that has a very vital to reg on the newswest pr posed for this land

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2 The tract is divided, by an arbitrary line stretching from east to west across its centre, into the Nuh tahsil on the north and the Firozpur tahsil on

The strip of Bangar on the east thus forms two assessment circles ot that name, one in each tahsil It adjoins the circle of the same name in the Palwal tahsil, and on its eastern side receives nirigation from a distributary from the Agra Canal The depression to the west of it extending to the boundary range of hills forms in Nuh one circle under the name Dahar The portion of the Firozpur tahsil immediately adjoining it to the south Mi Gibson has found necessary to form into a small assessment circle, the Chiknot, in addition to the two circles, the Dahar Mitha and Dahar Khari, which were originally considered sufficient for the corresponding tract in this tabsil The Dahar Mitha is to the south and comprises the land which still benefits by Landoha floods in years of good rainfall, while the Dahar Kharr lying to the north of this receives floud water only from the hills on either side of the valley and a further difference between the two circles is, as their names imply, that the wells are in the southern circle sweet and in the noithern sait Several strips of land fringing on the two Dahar circles and lying along the skirts of the two ranges of hills already mentioned, and on either side of the eastern range, have been included in one circle, the Bhuder circle of Firozpur, of which the characteristic is a light sandy soil too high in level to be benefited by torrent floods Firozpur has thus been divided for assessment purposes into five circles, while Nuh has been formed into three only, the third being the Taoru plateau in the north-west corner of the tahsil The collection of statistics for these units of area at this settlement has shown that certain alterations may with advantage be made in the above arrangement, a matter which will be reverted to at the end of this review The following table brings together the leading statistics for the circles Well cultivation is not of the same importance that it is in the Rewaii tahsil, but is considerable in the Dahar Mitha, Taoru, and Bhuder circles, wells are everywhere in this tract of the nature of an insurance against years of drought and are left unworked in years of good rain when the well area will bear a crop without the aid of irrigation remarkable figures are those indicating the area now under moitgage, but although these figures are enormous, against them are to be set the facts that the area sold out and out is small,* and that the mortgagees are very often fellow-landowners of the mortgagois To show the extent to which landowners are mortgages I have given in the last ling of the table percentages taken from Statement VI The percentage of cultivated area under mortgage in these two tabuls was already high at the time of Mr Wilson's Revision, vide page 27 of his report, being 20 and 18 per cent respectively of the cultivated area of the two tabsils, as compared with 34 and 46 per cent now

			Bangar (Nuh)	Bangar (Firoz pur)	Dahar (Nuh)	Chiknot (Firoz pur)	Dahar Khari (Firoz pur)	Dahar Mitha (Firoz pur)	Taoru (Nuh)	Bhuder (Firos pui)	
I ercentag	e to total	cultivation of Chahs	6	8	4		8	18	13	12	
	17	" Nahri	27	16							
	n	, Abs and Dahri		5	37	30	12	12	4	4	
•	27	" Chiknot, Nar-	63	65	49	67	70	54	63	26	
	,,	mot & Magda ,, Dahur	8	6	10-	3	10	16	20	58	
		tion on tquare mile	117	517	309	295	465	491	465	468	
	rated area	tiration rold since	2	1	G	2	5	14	4	5	
,,,	,	Settlemant under mertgrije	24	29	38	47	53	37	24	27	(
H	pa ome	era to owners	15	18	22	30	31	20	11	15	

The large percentage in the Dahar Mitha circle has no significance, as is explained on page 22 of the reperi

3. The assessing officers have, in accordance with rule, prepared two estimates of the net income to proprietors from the land, the one based on the

share of the produce taken when the rent is pollected in kind, and the other on cash rents. It is well to consider before examining these estimates in detail, how far they can be relied on as representative of the income to the peasant proprietors who themselves cultivate more than half the area in each circle, and which of them is the better guide in each of the various circles. For the purpose of this enquiry the percentages of cultivated land held by non-occupancy tenants paying cash rents as given in paragraph 23 of the Nuh report are deceptive, because they include all such lands irrespective of the nature of the cash rent paid. In the table below the percentages have been reduced so as to include only the land entered in column 11 of Statement XI as paying "other cash rents" and to exclude land paying at revenue rates with or without malikana.

,	3					į		PER CENTAGE OF HELD BY TE	Cultîvatêd lani Nants Paying
,	-	Tah	sil '			i	Circle	In kınd	In cash,
Nah				<u></u>	<u> </u>		Bangar	7	11
Firozpur	•		••	ŧ		1	» 4	6	18
Nuh			•				Dohar	11	16
Firospur		••		٠,			Chiknot .	17	6
13	•	•••					Dahar Khari	1 18	21
ti		•			ı		" Mitha	7	81
Nuh ,				1			Tuora .	3	17
Firospur				,			Bhuder	5	18

In the three circles placed lowest in this table the cash rent estimato is clearly a better guide than the produce estimate. In the Chiknot, on the other hand, the area under rents paid in kind is much greater than that under cash rents, and although it is not so in the Nuh Dahar and in the Dahar Khaii, it is of considerable importance in these two circles And Mr. Boughey's remarks, in paragraph 24 of his report, are worthy of note, they show that in the Dahar circle, at any rate, there is a growing preference on the part of tenants to pay in kind, a recognition that this class of rent is better suited than cash to, the now precarious nature of the cropping. In the two Bangar circles the larger area is under each rents, but the remarks on page 28 of Mr Boughey's report show that the each rents paid on canal irrigated land in the Nuh Bangar, are no time indication of the letting value of that class of land. No such objection is taken to the recorded cash rents on that soil in the Firozpur Bangar but it is stated (page 32 of the report) that its renting value is the same as that of unirrigated land. of the best unirrigated land is meant. The above comparison shows the extent to which the two estimates can be made use of in the various circles. In deducing from them the estimate of the net income of the self-cultivating proprietor the Settlement Officer and his Assistant have considered it necessary to make allowances and reductions of various kinds, which will be considered when the assessments proposed for the various circles are discussed.

As the basis of the estimate of income from rents in kind, the average cropped area forming the basis of the property age area cropped annually is taken of a deco estimate.

age area cropped annually is taken of a five years' period which is different in each of the two tabsils. In Nuh the period is that of the years 1898-99 to 1903-04, excluding the famine year of 1899-1900, or the same as was taken in Rewari and Palwal. In Firozpur, with Mr. Douie's approval, Mr. Gioson depted the five years 1900-01 to 1904-05 instead, as giving a more typical average of the distribution, of crops. The propriety of making a similar change in Nah was considered but I understand that there the later cycle was held not to be any more representative than the other. In a tract where rainfall and flooding are so

variable and precarious as they are shown to be in the Rainfall Return (Statement I appended to the report) it is hard to pick out any cycle as typical of the tract, but it is noteworthy that the five years adopted in Nuh give an average cropped area which is less than the artrage; according to Statement X, of the 21 years ending 1905-06, among which are included 1896-97 and 1890-1900, two years of famine in the Punjab, the areas being 87 and 90 7 per cent respectively of the total cultivated area. This is for the tahsil as a whole. For the Dahar circle the difference is still more marked, the percentages being 72 8 and 78 S. For the Bangar circle the corresponding figures are 94 7 and 98 1. In the Taoru circle, on the other hand, the average for the five years nearly coincides with that of the 21 years. In the Firozpur tahsil, even with the different term of five years, the average area cropped is well below the average of the 21 years in the two Dahar circles and the Chiknot though nearly equal to it in the other two circles, the percentages of cultivated area being—

	Bangar	Bhuder	Dahar Mitha	Dahar Khari	Ohikaot
For 5 years ,	99 5	90 7	89 8	88'4	66 G
For 21 years	102 2	916	93	93 9	72 8

The rainfall statement* may, in this connection, be referred to shows that the two tahsils have an aver-Ramfall age rainfall of from 23 to 24 inches, of which 20 to 22 should fall in the four months, June to September, and 21 to 3 luches in the cold weather During the 11 years 1895-96 to 1905-06, however, the rainfall was below the average in seven years in Firozpur and in eight grans in Nuh, and very often much below it; while in the previous 10 years it was only twice below it, and not badly so If regard be had to the sain of Suptember which is so important for the Rabi harvest, and also to the rainfall of the subsequent cold weather months the deficiency of the last 11 years is also marked, as compared with the amount received in the previous 10 years. It may be doubted whether even the period of 21 years for which figures are given is sufficiently long to be a representative cycle, but it may be safely asserted that a period of five years, however selected, is too short to form a safe foundation for a produce estimate for a circle or a tabsil, though it may give a fairly reliable result per acie cropped. The deficiency of the last 11 years must also be borne in mind in considering another important matter, the falling off in recent years in floods from the Landoha and other torrents, which the people ascribe to the stoppage of these torrents by embankments, but which may possibly be due in a large degree to the scanty rainfall of these years This will be reverted to hereafter when the circle assessments are discussed

6. The yields per acre adopted in the reports for the various crops are not based upon the results of experiments. This is not due to experiments having been neglected, for the Settlement Officer and his Assist int have devoted much care to this branch of their work, but owing to the abnormal harvests experienced most of the experiments have had to be rejected and the area shown in Statement XII as having been made the subject of experiments is too small to afford results of any value. Mr Gibson and Mr Boughey, however, have, working from the experience gained from experiments conducted by themselves, been able by inquiry from the people, and by comparison with the yields ascertained in neighboring tracts, to formulate rates which may be characterized as full, though they are generally lower than the yields assumed by Mr Channing at the last settlement and are unquestionably fair to the people. The tract is, like the adjacent land in Alwar, a fertile one, and when the rainfall enables it to yield at all, it yields well. The outturn per acre is particularly good for gram and for cotton.

7 The scale of prices adopted in these two tabsils is the same as has been accepted for the R wari and Palwal roduce estimate prices tabsils by Mr Douie as Settl ment Commissioner. In Nuh and Firozpur which are more remote from the railway than

the rest of the district, a lower scale might have been expected, but it is vouched for by the assessing officers that the Zamindais get the same prices for their produce here as in the rest of the district. The rise in prices which has occurred since last settlement is referred to in paragraph 13 below.

- From the assumed prices and yields applied to the assumed area is deduced the gross produce estimate for Produce estimate deductions previous to calculation each circle. Before calculating the share of landlord's share. of this which the landlord is entitled to receive as rent, the Settlement Officer has made the usual deductions on account of the crops which, although their value has been included in the total, are fed off in whole or part to the cattle. These deductions are very considerable in this tract, where cultivation has reached its limit and the margin available for grazing is very small; they have been very carefully thought out, and no objection can be taken to them. Nor need objection be taken to the value of the straw, which the landlord receives as rent, being written off, although theoretically half of it should be credited to the Government half of the net assets even if it is the case that the straw is not sold by the landlord but fed off to his cattle. Menials' dues are paid by the tenants from their share of the produce in both tahsils, and consequently no deduction has been made from the gross produce on this account. I have ascertained that the meaning of the remark (paragraph 31, Nuh report, paragraph 32, Firozepur report) that allowance must be made for these dues in assessing is that Mr. Gibson thinks the liability for them would be thrown on the landlord, or at any rate shared, if there were a larger area held on rents in kind. This, however, is an assumption only, and would not warrant a reduction being made in the half assets estimate: it is merely a corollary of the general criticism that where the area held on rents in kind is small, the half assets estimate hased on such rents must be viewed very The allowance made for the patwars having underestimated the area of failed crops in the two Bangar circles may be accepted Both Mr. Gibson and Mr. Boughey in checking crop inspections in these circles have observed that the allowence given by the revenue patwaris is inadequate not only in the canal irrigated villages but also in those which are not commanded by the canal, the patwaris in these circles having acquired the system of the capal patwaris. The extent of the correction allowed on this account is a matter of conjecture only, but I believe it to be very near the mark In the case of canal arrigated crops the landlord pays a share of certain cash expenses detailed in paragraph 34 of each report, and his expenditure on this account has rightly been deducted from the value of the produce
 - 9. The value of the gross produce available for division between landlord and tenant having thus been determined the proportion taken by the landlord as rent is set aside in Statement XIII as the owner's net assets, and one
 half of that as the theoretical Government hare. As regards nahri crops this
 calculation has been made for each crop separately in consequence of the cash
 expenses shared by the landlord. The Settlement Officer in paragraph 34 of his
 report expresses his opinion that the proportion is higher for unirigated land
 than would be given by the tenant if kind rents were more general than they are,
 but the half asset estimates as framed are in accordance with the existing practice, and may be accepted, subject to the general criticism referred to above,
 as guides in the few cases where kind rents are more generally paid than cash.
 - Adequacy of the produce for the needs of the population probable annual food consumption of the
 total population, rural and urban. The annual deficit works out to 12 per cent,
 of the food required for Firozpur and 10 per cent, for Nuh. In view of the
 romarks in paragraphs 4 and 5 above on the average cropped area taken as the
 basis of the produce estimate, the wonder is that the apparent deficiency is not
 greater. The area is less than the average area of the last 21 years, and, though
 the population of these two tabils were not distressed in the famine of 1896-97
 and held out bravely in the second famine year of 1892-1900† there can be no
 doubt that grain had to be imported for food in these two years, and the average

^{*} Paratroph 54, And report, paratroph 59, Ferrapur report. † Paragraph 5% Punjab Famine Report of 1854-97, and page 9, Voicine V of the Report of 1809 1900,

produce for the whole period may actually have been little in excess of the local requirements and may even have been below it. But it is more probable that here, as elsewhere where similar estimates have been worked out the deficit is apparent only, and is a proof that the produce estimate has been, as it ought to be, based on rates of yields which are those of the average field in the average year, and therefore gives a result below the actual produce of all fields in a year of fair harvests. The tract is not well served by railways and it is consequently impossible to test the estimate by comparison with railway returns, but Mr Gibson is of opinion that in ordinary years there is no import of foodgrains, and his conclusion may be accepted that, except in years of drought, the tract is self-supporting in respect of food and has a surplus produce of cotton and wheat for export

Cash rents undoubtedly afford the better guide to assessment 11 throughout the greater part of the Half aseet estimate derived from cash rents They are paid on even a larger tract area than appears in the returns, for the meaning of the remark at the top of page 26 of Mr Boughey's report is that a certain area of land shown as cultivated by the owners is really held by them as tenants of others to whom they have mortgaged it by a form of deed not recognised by the Land Alienation Act, and who are therefore not recognised as mortgagees in our papers. Transactions of this sort are also referred to at the end of paragraph 16 of the Nuh report Very great care has been exercised by the assessing officers in sifting the recorded rents and in rejecting those which are unsuitable as guides owing to there being rack rents or for other reasons, but a considerable area remains after this process (of Statements XIV and XV) on which the rents paid indicate clearly the letting value, not only of nearly overy circle as a whole, but also of the various classes of soil. The only matter in respect to which the estimates based on these are open to criticism is the allowance made on account of non-realization and cost of collection. The allowance of 5 per cent made on this account in the Rowan tahsil was based on the accounts of a Court of Wards' Estate, and similarly in Palwal the deduction of 12 per cent was justified by the books of the Skinner Estate. In the tabsils now under consideration returns of similar accuracy and importance have not been available, and yet for most of the circles the deductions made on this account are greater than those of Rewari and Palwal, being 30 per cent in the Dahar Khari, 25 per cent in the Nuh Dahar, 15 per cent in the Dahar Mitha, Chiknot and the two Bangar circles, 10 per cent in the Bhuder, and 5 per cent in These allowances are liberal, and seeing that they are, to some extent at any rate, covered by the remissions granted under our system of land revenue collection, I think that the resulting half asset estimates based on cash rents may be accepted as very moderate ones. Only in two circles are they in excess of the corresponding estimates based on rent in kind, which have themselves been framed in a liberal manner, and on a contracted crop area, and in most circles they are much below them —

	Bangar Nuh	Bangar Firozpur	Dahar Nuh	Chiknot	Dahar Khari	Dahar Mitha	Taoru	Bhuder
Half assets produce	Rs 1,51,408	Rs 1,11,586	Rs 1,26,093	Rs 16,188	Rs 46,775	Rs 53,579	Re 59,900	Rs 55,650
Half cash rents	1,17,850	1,06,810	1,11,785	15,170	46,841	55,097	49,507	51,712

The most difficult question in the assessment of the two tahsils is The four Dahar circles. Reasons assigned for protein the treatment of the Dahar circles, posing a reduction of assessment in therefore take them first in discussing the proposed assessments. Their present assessments are given below, with the percentage they bear to the half asset estimate now framed, and the assessments proposed by the Settlement Officer or Assistant Settlement Officer In the Chiknot circle the half asset estimate is that based on rents in kind

in the other circles it is the estimate based on each reats. One-sixth of the value of the gross produce is also shown in the table for comparison—

hame of	hame of Circle.		One-sixth of value of grees produce	Present revenue	Percentage on half assets	Retease proposed by Set'lement Officer	Percentage on Lall assets
			R•	Rs		R*	
Dahar Mitha	***	**	47,590	47,276	85	45.249	82
Dahar Khari	••	***	41,635	37,411	£3	35,911	77
Chiknot	,,,	**	11,400	14,151	87	12,503	23
Dation Noh			1,85,958	1,01,251	60	05,622	st
					-	·	

A reduction is thus proposed in each case, and, while there are masons special to each circle for the Scittement Officer proposing this course and for erriving at the exact amount of reduction proposed, the main reasons are common to all, and it is emissionedly be discussed in this paragraph. There has been a diminution in the area annually flooded by forrents or dramage from the hills, and this flooding, however insulabrings it may have been, was almost should into the to continue and allowed of a botton class of crops being grown then can be produced with the end of rainfull slone. The extent to which this la occurred a redeat 1 by the figures er a lumna 7 and a na page 13 of the birozoni report, but is a matter of inference only as regards the Null Polar (par repli 10 of that report). The figures in Statement X also bear men as to n, for they show that the follows off in the area eropped in the last a speccompared with the present ten, years it made marked in the Research in the Khard, and the Radaus the more important harded of the two on the stad lands. Over a partly to the disterioration of the Dahar circles in two recesses, Im still more, probably, to the long cycle of not years, with their time of scared and funds, the proportion become importunational interior affine a to northern himsens of their land to provide the made with Lock. I'then in sectifulty population the realt of each person with to been herein and the military the character of the Moorbong such autis (proprophed 3 or 1 al. Emergue note that car is mixture of the 4th superanularity erry, it easy est, no pt the result. They are the more lath to sale them but not not the presume of the judgeten on the an entrater terms exactly and they have little man language months of the constraint of the second of the constraints. med the greenal elevely colline et la cope o the extension production productions milite wells. Undiborthus start con bu confidence and fire any and it is not be the first of the property of to total continting the annual experience

The state of the same of the s

for Palwal was modified in Mr Douie's review, paragraph 7, but as to the reality of the rise, and especially in respect of cotton and wheat which are the chief marketable articles in the circles now under consideration, there can be no doubt, and in the forecast of the financial results of this settlement it was anticipated that the revenue might be enhanced 15 per cent on this account alone. The tenants who have to pay cash rents have to sell produce in order to pay them, and the figures on pages 26 and 32 respectively of the Nuh and Firozpur reports show that cash rents have gone up steadily, no doubt in response to the rise of prices. Mr. Gibson is right in saying that the rise is largely discounted by the fact that the revenue payers are peasant proprietors, and the remarks in paragraph 377 of the Settlement Manual are very pertinent in regard to this tract But the improvement in resources due to rise in prices cannot be ignored altogether, especially when it is borne in mind that there is no separate tenant class in this tract, and the tenants are themselves proprietors who add to their assets by cultivating such land as they can get on rent from others. I may note that Mr. Gibson thinks that this circumstance tends to keep rents low, or at any rate fair, rather than high, because when a tenant has no land of his own he is at his landlord's It has also to be borne in mind that a number of the owners are sufficiently well off to be mortgagees themselves, and these draw rent from the mortgaged land. Then we have to bear in mind the manner in which the existing demand was arrived at, and the facility with which it was paid during the greater part of the period of the expuring settlement. The revenue assessed by Mr. Channing at the Second Regular Settlement was based on the experience of abnormally favourable years, and it was very soon put to the test by a series of bad seasons including the famine year of 1877-78, with the result that it was very carefully revised by Mr Wilson from village to village in the light of the more normal, or less favourable, years that had supervened The resulting demand, which is practically that now in force, was admittedly paid without difficulty up till 1895 (paragraph 38 of the Firozpur report) and the suspensions which were granted in subsequent years, and which are conveniently tabulated on pages 39 and 50 of the two reports, were no more than might be expected to be required out of a fair assessment in abnormal years. The suspended revenue was for the most part collected without difficulty in the good years which intervened between the bad, and the amount which it was ultimately found necessary to remit was equivalent to half-a-year's nevenue in the Nuh Dahar, and to rather more than that in the Dahar Khari and rather less in the Dahar Mitha, though in the small Chiknot circle it was equal to nearly two years' assessment. The danger of generalizing from the experience of a few good years was illustrated by Mr Channing's settlement, and there is at least a possibility of our being led now by the experience of a series of bad years to fix the Government demand at an unduly low pitch. Even the strongest argument for the reduction of assessment, the falling off in the flooded area, does not rest on entirely secure ground, for the falling off may be due as much to a prolonged deficiency of rainfall as to the action of embankments in stopping And while the density of population must be admitted to be great (the figures are given in paragraph 2 above), it is less than the incidence of rural population per square mile of cultivated area in many districts of the province, and considerably less than in these districts which are generally conceded to be congested

settlement Commissioner's opinion as to proposed against the proposed reductions, that there is on general grounds no case for a reduction. The fact that the present assessment forms a high percentage of the half asset estimates is not in itself an argument, especially when we consider how carefully these estimates have been framed so as to exclude any chance of their being unfair to the revenue payer. We cannot judge of an assessment by arithmetical rule, and when the question is whether to reduce or not, the main fact to be considered is how the assessment has worked. The existing revenue seems to have stood this test. The people, and they are evidently numerous, who take land on mortgage, find no difficulty in paying the revenue, and if those who have been driven to mortgage have found a difficulty, it is not because of the pressure of the revenue but because owing to large families and bad years, they find it hard to get a living at all. In dealing with the question of maintaining the

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present high pitch of assessment I have been led to consider whether the system proposed by Hi. Wilcon as Settlement Commusion or in puragraph 17 of his reserve of Mr. King's Sirsa Assessment Report might not suitably be applied to these two tabelle, and I should be inchied to advocate its adoption, were it not that the recent revision of the rules for the suspension of land revenue, and for the remasion and collection of suspended land recoine, the result of which it given in the link edition of Revenue Circular 31, even to sufficiently excure the objects samed at. If the Settlement Officer, in framing his scheme for easyonsions and remegions of land revenue, has regard to the provisions of paragraph \$ 10, 12, 13, 22 and 23 of that Circular, and if the scheme is carefully worked by the Denety Comimexioner of the district, I think no hesitation need be felt in at least maintaining the present assessments of the Dahar circles. Paragraphs 13 and 22 is port color give a very wide discretion in differentiating b tween, the impoverise I and the will-to-do landowners in the matters of suspension and of the culculation or the mission of suspended land reseaue, and in order to maintain the present patent of the demind no further differentiation in as essment appears to me to be nearly by The proposals in regard to each circle may now be considered briefly.

15. The Dalar Mithe is in some respects the best of these four cirebet it has a very forthese oil and gets will to ever flooding there is to be had from the

Lindolm. It is better protected by wells than any other each in the two talis le, and the wells are sweet. Sixty mas may wells have been some over the rettlement, and so, even if the revenue is not reduced, there will be a considerable and alternation of exempe owner to the either from the perfect respectfication for the note each within the last 20 years. It will be thereof that the pore at it of chalical to total cultivation in circuius to on page 11, well that if i ski resgition as 8 on page 54 of the report. The latt i figure represent the exercise nter natived from nells in the year, on an average of years, while the firmer represents the total potential area, or the area protected by wells. It is a the latter are ether the resease rate sanctioned for chart end is applied for the purpose of frames the jaces in the report, but in printer the selffeld lead seeed, as has been denoun Remarkand Palem', at the form's rate or itable for the end, while the are included by the application of the challer at a tall for taken in the larm of a lump at ma withour will. I make for a that the expense ha been penerally cropted in Rewari in the people in the distribution of success over holdings. Mr. G.b. a propers a reduct a of rock B. 2000 in the remember the prolong economics the down of the down these, the makes with many controls except 8,147 to the over How for the second present, it is difficult to my, and against a for in the form, one of the many of the original of the second of the tale and on he entone would not early taken from more every the status proclimed to pleasing in an atoms it is at it is employed to be explicated by the or it is a few many respected in metal to an extension of all the compact polar of single metal engine new transfer of the metal engine and the form of the form of the first production to the metal engine of the form o Extense a Mr. the districtive of diffe the plate of your year of all to be a fine of 中部 教育工具 主义主义教授的法院主动 经实现

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higher here than in the other circles and it amounts to 87 per cent of the half asset estimate, but I do not think it need be reduced. I would raise Mr. Gibson's barani rate to Re. 1-4-6 so as to obtain an assessment of Rs 14,066 for the portion of the circle under fixed assessment. The abi rate is sufficiently high.*

- Atea under fluctuating assessment in the Chiknot either in the rates or in the system encle and the Nuh Dahar circle of fluctuating assessment in force in the Kotla Jhil villages of the Chiknot and the Nuh Dahar circles. The system is described on pages 38 and 45 of the Nuh report and on page 63 of the Firozpur report, and with reference to the remark at the end of paragraph 46 of the latter, Mr. Gibson informs me that he has no further report to make and that his proposals stand. I recommend that the rate of Rs. 2 per acre of matured crops be maintained in these villages, and that, as how, land which has paid for a Kharif crop should not be charged for a crop sown in the following Rabi. The villages in the Chiknot circle which are subject to this system should, I think, be transferred from the Firozpur to the Nuh tahail. Mr Gibson agrees with me in this, and will submit proposals to that effect. I have also asked him to consider whether the whole of the Chiknot circle might not appropriately be transferred to the latter tahsil and merged in its Dahar circle
- Nuh Dahar circle area under fixed assessment assessment, the area recorded as flooded shows no diminution as compared with last settlement, the total of dahir and abi being nearly equal to the dahir area of settlement Similarly, little change is shown in the area recorded as chahi, although 110 new masonry wells have been sunk during the term of settlement. The chief reason for the reduction proposed by Mr. Boughey is the large area under mortgage. The present demand is 90 per cent, of the half asset estimate, but the latter includes a deduction of 25 per cent, from the amount of cash rents to allow for non-realization. I would not increase the demand, but I think the present revenue may be maintained. To attain this result I would accept the bhur rate proposed by Mr. Boughey, and adopt Re. 1-8-0 as the rate for chahi and flooded land and Re. 1-5-0 as that for superior barani soil
- The Taoru table land receives dramage from the hills which nearly 20 furround it, and has 13 per cent Circle Taoru. its area protected by sweet-water wells. There has been a slight increase in cultivation, and the chahr area has risen greatly, 74 new masonry wells having been constructed during the term of a settlement in addition to 33 old wells repaired and brought into use. The state of mortgage is not serious, and the people are not in distress. The present demand is 74 per cent of the half asset estimate based on cash rents, which is the proper one to adopt for guidance in this circle. The remark on page 27 of Mr Boughey's report, that cash rents are not common in Taoru scarcely expresses what is meant Cash rents are common enough in the circle but Mr Boughey thinks that although the best land is not given out on rent, the competition for the land that is so given out is very keen, and the rents rule very high this reason he is rather disposed to distrust his rent estimate, and this may have influenced him in proposing the moderate enhancement of 14 per cent. on the The proposed demand, Rs 42,214, amounts to 85 per cent (and present demand. not 82 as given on page 44 of the report) of the half asset estimate of Ra 49,507, and we should not, I think, go higher, though this amount can safely be taken The revenue rates proposed by the Assistant Settlement Officer are suitable
 - 21 The strips of land forming the Bhuder circle are differently situated from the Taoru plateau, and the prevailing soil is the light sandy bhur. It has 22 per cent of its area protected by wells, and the chahi area has increased since last settlement, 122 new masonry wells having been sank and 65 repaired. The

^{*}Mr Gibson, who has seen this review, writes —'If the present assessment is maintained in this circle, I think it can only be successfully maintained if the proposal which I shall make of giving initial remissions (at any rate up to a certain percentage of the demand), instead of suspensions, be accepted."

tircle is in a prosperous condition, but the existing demand (Rs. 44,420 by Statement XVI) is 85 per cent of the helf asset estimate based on each rents, and I agree with the Scittement Officer that it would not be prudent to take any enhancement. The rate of 114 annus on across is sufficiently high for the blue which is the chief soil of the circle, and the other rates are suitable. The result of maintaining the present demand unaltered will be that a considerable portion of it will be remitted for a time on account of protective certificates granted to now wells, but this position is in accordance with the Government policy of affording encouragement to well-sinkers.

22 The following is the composition of the three conal irrigated circles of the district .—

Trein of Circle	Palwal Bangar	Nob Bargar	Tir epar Bangar
Percentage of Chahi ami to cultivation Percentage of Nahri Percentage of Superior Barani Percentage of Brur Percentage of Abi and Pahri	10 36 48 8	6 27 39 8	\$ 16 65 6
and the second place of the second parts of the parts of the second parts.	His of white programmer	The state of the s	i The state of the

It would have simplified the assessment of the Nah Bangur if the circle had been sub-disided into two, the costern centuming the conditions to Lisibagia, and the western those which are not a minerally by the canal. If t. Bougher hotes that the farmer, before the introduction of the cared, were informed the latter and convequently recoved at last settlement comparationally held a loss course which have become lighter at II now that the aillast have the submittage of completion. The western rillians on the other had not be to the neighborring villages of the Dobar circle, though strength converse of treat theday dis population. It may be noted that we'll are little not in the force commended by the canal and the large motern which has assured in the autism of wells has been confirst to the western left of wilder. The latter in terms of the unbard went of the internet of the confirst wind the former a very suferiorial more as in the figure. Roughly's tourties village to-college has smeath from him fence it on the principle, but when the results are brought together to the total for all exercise till order to pude them to be exempled to refer to the form to the property of the refer to the first and the refer to the first result of the refer to the first result of the refer to the refer end, it in been observed in paragraph donors of at the end their master of an teneral constant properties of the end the end of the letting point of a constant brees. There is a series proceed the problem and arm at a process of the end of th abjection, but they are emptotes up proceedings.
Responding the control and bound for the Appending that a new order of the control and the co The table of Asimple and the test terms followed to the control of the first fill the first fill the fill of the f but have the est, a last or excess for each so the property to be able to be about the same of the state of the same of the sa while the ten of the election will be fix the control of a factor of the first and

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		\$ 2 ^{2h} 2 × +8 8c F H 2b + 600 + 8223	है के पूर्व केंद्र के देवा है जा कुछ है देवा हुई	1
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From the percentage of half assets taken on barane and bhur soils it is clear that the revenue of the uncommanded villages will be maintained at a sufficiently high pitch. The pitch of the assessment on nahri land will be nearly the same as has been proposed by Mr. Dome for Palwal. The assessment for the circle proposed by Mr. Boughey, Rs. 1,14,207, therefore appears If Mr Donie's recommendation in his Palwal review is to me to be suitable accepted, that the nohiz soil should be given a fixed assessment in its unirrigated aspect and that a fluctuating canal advantage revenue should be charged in addition on the land actually irrigated in each harvest, the fixed land revenue on nahn sul at Re 1-3-6 per acre, the baram rate approved above, will be Rs 28,364, as compared with Mr Boughey's proposed fixed assessment of Rs 39,273, so that to attain the latter pitch it is necessary that the canal advantage rate should yield Rs 10,209. This result would be given by applying a rate of 10 annas an acre to the average area annually irrigated, which is 17,675 acres according to the upper table on page 12 of the report, and 17 290 In view, however, of the fact that Mr Boughey felt according to the lower himself limited, in proposing an assessment of a fixed nature, to a mederate enhancement only, I think that with a fluctuating assessment a rather larger increase can be taken and I propose that in this circle the rate of fluctuating assessment should be 11 annas an acre, which would yield an average of As contemplated by Mr Douie in his explanation of his proposed system in his reviews of the Karnal and Gobana reports, while the income from the rate should average 11 annas per acre for the circle, the actual rates framed for different villages may be greater or less than this as the Settlement Officer may consider appropriate, and the area under millets should be exempted from payment of the rate

The difference between commanded and uncommanded villages is less 23marked in the Firozpur Bangar, for The Bangar carcle of Firozpur Mr Gibson reports that the expiring assessment is light for the circle as a whole The large increase of wells has here also been confined to the uncommanded villages. The half asset estimate based on cash rents should in this circle be a more suitable guide to the assessment than the produce estimate It is remarkable, however, that the rent should distinguish so little between the various classes of soil other than thur and from his remarks page 57, Mr Gibson seems to have come to the on the barani rate on conclusion that the process of correction of which the results are given in the table on page 32 of the report was carried too far in the direction of lowering the chahi and nahri rent rates. He has consequently, in his proposed revenue rates, proposed to take a much larger proportion of the half assets estimate in the case of these soils than in the case of barant and bhur, as the following table shows, thus giving a result of an opposite nature to that shown by the analysis above of the Nuh Bangar rates --

	1			2	3	4
	Soil			Half asset rate	Rate proposed by Settlement Officer	Percentage of column 3 on column 2
				Rs a. p	Rs a p	
Cnahı	•	111	•	1 12 6	1 9 0	88
Nahrı	•		•	1 12 6	1 9 0	88
Baranı				196	1 4 0	37
Bhar				0 12 6	0 10 0	80

It is a question whether in these circumstances the produce estimate of Rs. 1,11,586 is not a more reliable guide than the cash rent estimate of Rs. 1,06,810 for the circle (although in respect of differentiation between soils it goes no further than the latter), and whether the revenue should not be enhanced further than the Settlement Officer has proposed. If the difference of 5 annas

between the proposed rahri and barant rates is applied to the 10,675 acres of natrice it and the restit, Rs. 8,536, is distributed over the average candering tion of 8,455 seres (page 18 of the report), the quotient gives a rate of 6 annes only for application as the canal advantage fluctuating rate for the circle. This is certainly to a low. The rate should not average less than 8 annes are area for the circle. It should be differentiated from aillage to sillage as proposed by Mr. Dome, and the area under miliets should be exempted from payment of the rate. The rate proposed by the Settlement Officer for baranisoil, which will also under the system proposed by Mr. Dome be applied to nature of, might be slightly increased, and the assessment which I would propose for the circle is—

	₩.	ગો			Rate		*	Ares.	Demand	Total	
			-t (i		R.	ŧ.	r	Arrea	R-	R.	
Chahi	• •	***	٠.		1	ъ	0	000,6	8,481	-	
Nabri			***		1	\$	0	734	1,178	***	
Baraci	***		***		1	4	c	45,941	\$\$ 95 7	· ·	
Bhor	*11	••	***	•	0	10	0	4,147	2 (92	1	
lisbri kr	ъ	***	***	•	1	4	6	10 675	15,017	{ }	
NahH flur	ortlor.	444		1	0	s	Ø	8927	4.455	[a ca	

This world give by per cint of the laffrence estimate has bon called a mid 50 per cint of that has a long collection in land, and world be not a house of all the present armond by 13 per cent.

- 24. The Satil meet Officer's in receives for the age a realt of the server handled in the I was constructed by the District Board on by the server refers a two day larger horemone I ten No. 2727-8, and I see, the face to a first on the first of the face to a side of the face of the face to a side of the face of
 - (1) I recom I charle-drought on for it. Maily "we will be as the same like the same for it is a series of Re. I for normal of continuous at
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 - (S) Not Talest maller by I also a front to Transaction of the companies of the companies to the companies of the companies of
 - (4) And I for any many of the weather are the second of th

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report and in paragraph 44 of the Nuh report. In regard to the rules for the annual assessment of abiana framed in paragraph 52 of the Firozpur report, it is sufficient to say at present that, with the modification to suit the Nuh tahsil proposed in paragraph 48 of Mr Boughey's report, they are generally suitable. The principles on which they have been framed appear to me to be sound, but they will have to be recast when the assessment of the Gurgaon tahsil is completed, and an opportunity will then occur of finally considering them before they are published under Section 74 of Punjab Act III of 1905

20. The following are the proposals which I put forward for the assessment of the various circles —

			REVENUE P	BOPOSED BY	INCREASE OF PROPOS	
	Cirole	Present demand	Settlement Officer	Settlement Commis sioner	Settlement Officer	Settlement Commis- sioner
<u>,</u>		Rs	Rs	Rp	Rs	Re
Dahar Mitha	, ,	47,276	45,348	47,276	-1,928	
" Khari	**	87,411	35,911	87,411	—1, 500	,
Chiknot fixed	•	14,151	12,503	14,151	-1,648	
Bhader		44,420	44,420	44,420		
Bangar ,	Fixed Fluotuating	79,661	86,767	85,325 4,493	} +7,106	+10,157
	Total Firozpur tahsıl	2,22,919	2,24,949	2,83,076	+2,080	+10,157
Dahar .		1,01,251	95,672	1,01,251	— 5,579	
Taoru	,	86,501	42,214	42,214	+5,713	+5,718
Bangar	Fixed Fluctuating	1,00,360	1,14,207	1,03,299	} +18,847	+15,091
	Total Nuh tahsil	2,38,112	2,52,098	2,58,916	+18,957	+20,804

I have taken the present demand, and the Settlement Officer's proposed demand where he proposes no change, from Statement XVI, to secure uniformity; the above figures therefore differ to a small extent from those given in the body of the reports. The fluctuating assessments of the Kotla Jhil villages in the Chiknot and the Nuh Dahar circles and the abiana to be levied on the areas benefited by bands, are not shown in the above table, as the amounts will vary so from year to year that it is difficult to frame accurate estimates. It will be necessary for the Settlement Officer, however, to frame forecasts of the income from each before the new assessments are introduced. And he has also to prepare an estimate of the portion of the fixed assessment which should be credited to the bands.

Changes in a secsment circles and classification of Settlement Officer now thinks that the Settlement Officer now thinks that the division of the Dahar tract of Firozpur into two was unnecessary for assessment purposes, and I agree with him and 2m of opinion that the Dahar Khari and Dahar Mitha should in future be treated as one circle. The minute sub-division of superior barani soil into the three classes of chiknot, narmot and blur, which was adopted at the beginning of the settlement, was found to be superfluous for the purposes of the settlement, as will have been observed from the rates proposed in the various circles, and under Mr. Dome's orders it has been arranged to show them under one heading in future, and this has been provided for in the village note-book forms.

- 27. The subject of protective leases for wells in this district is being discussed in separate correspondence with the Financial Commissioner. The grant of softeness on on wells falling out of use should be extended to the tiled; the system of distribution of the assessment over wells have been touched on in paragraph 15 bove. The sules referred to in paragraph 51 may be approved, as recommended by Mr. Danie in paragraph 12 of his Palwal review.
- 24. The new demand should be introduced with effect from the Kharif harvest of 1908. The co sex should be not present (pragraph, 54 of the Settlement Officer's report). The term of Settlement will be determined later for the district us a whole. The question of the remission of the land revenue at present held under suspension should be referred separately in accordance with the orders of Government on the proposals in that regard for the Reward tabul.
- 29 Mr. Gabon's report is a very thorough piece of work and it brars marks of his strong sympathy with the people. Mr. Boughey has exceptly followed the Seitlement Officer's methods but his report shows originality also, and is a good one.

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Date ? 8th January, 1908

A. H. DIACK.

In order to work out a soil rate for the irrigated soils (chahi and nahri) in the Bangar circle I have adopted as far as possible the same calculation as that given in paragraph 36 of the Rewari report. For the chahi rate I have taken the areas in Statement III. This gives a pakka chahi area of 4,868 acres of which only 2,187 acres are annually irrigated. The remaining 2,681 acres are sown with barani crops. In the Rewari circle with a light soil. Mr. Gibson could fairly assume that either jowar or bajra would be grown. I do not think it would be safe to make this assumption in the Bangar circle, where rubi crops are grown barani on well lands, and I have accordingly taken the rate per acre matured given in column 33 of Statement XIII. In paragraph 27 I have assumed an unirigated failed area of 28 per cent. This is nearer \(\frac{1}{4}\) than \(\frac{1}{3}\), but for the purposes of a calculation such as this I prefer to regard the figure 28 as a minimum and I therefore assume that only 2/3 of the barani area matures. The calculation is therefore.

\[
\frac{2187 \times \text{Re} \(\frac{2.80 + 2681 \times \frac{3}{2} \times \text{Re} \(\frac{1 \times 0}{4508} \) =-1-12-3 per acre. For the nahri area, there is no statement

2187 \times M 25-04-2081 \times 3 × Re. 1 130 = -1-12-3 per acre For the nahri area there is no statement corresponding to Statement III and I have therefore taken the average area irrigated as shown in paragraph 11, while for the whole nahri area I have been obliged to take the figures in Statement II, which are those for the year 1905 06. This is not very satisfactory, but it is, I think, the nearest approach to accuracy which we can get The calculation in this case is $\frac{17290 \times \text{Re } 2.9.0 + 5946 \times 3 \times 1.18.0}{23236}$ = 2-3-5 per acre In each case the irrigation rate is that shown in the table given in paragraph 34. The following table compares these rates with the cash rents and my proposals —

	C	hahi		N	Tahrı	•		
Soil rate by kind rents	Rs l	B 12	р 3	Ra 2	a. 3	р 5		' j
Cash rent rates	1	13	9	2	4	0	Assu med	2
Proposed rates	1	8	0	1	11	0		691

The two chahr rates agree very closely, and so do the nahrs rates, but the compathere is of course vitiated by the fact that the rate shown is an assumed and not an alogarent, and also because the calculation is not quite so accurate as that for the chahr, so think we may say that the difference would not be strikingly great and that consequently correpondence is there, too, fairly close.

18th Pecember 1907.

G. M. BOUGHEY.

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ASSESSMENT REPORT

OF THE

FIROZPUR JHIRKA TAHSIL

OF THE

GURGAON DISTRICT.

PART I.-PRELIMINARY.

CHAPTER L-PHYSICAL DESCRIPTION.

I. The Firespur Talsil is the most stathern of the tabula of the district:

The firespur Talsil is the most stathern of the tabula of the district:

It is bounded on the north and east by the Noh and Palmil Talsils, on the couth by the Michael District of the United Provinces and by the State of Birtistic, and on the south-west and west by the State of Alwar. The area of the tabula is 316 quare miles, and the population at the Consus of 1901 was 1 12,297. It contains 244 estates as compared with 229 at last settlement, 15 rillness becomes been transferred from the Nub Taball at the end of the settlement operators.

2. The tobal is divided into two parts by a spar of the Armalla range which traverses its centre in an individual form this and mother nearly parallel spar of the same range, which forms the range rangery of the tabel, her the Frozpur valley, famous from the carbet times or its fertility and for the hearty of its cultivition.

The lands lying under the bills an early and very inferior, but there is be centre of the valley be low and are flowed during the ramy carried in weter rom the Landola ricean which in terrible routh winterpresent in tabelle on the Alvar blate and by numerous town it flowing from the bills which encloses the valley on either a de. The property of the part of the tabell desert which an regular flowing from the bandola, which brings there is most feeled with and can be the little deserted at flowed to yell action thought easier coups of what Texas smaller town its deposit only, and there were is not a only so the final as that of the best had the

Active elecant rices in Alman and universe a large once so the Hamourity of the foliable State before entering the European Take a mount fruit of the day been experienced in majorations forly the notice of a significant Advances his page reaching force.

Fill contains of the amount month of most here a through an error of the first and through an error of the first of the Gammar distinguist. The professor and the fill of the

- "It then enters the Ramgarh Tahsil, flowing at first due south under the hills to Bandoli. At Kharkhari it is joined by the drainage of the considerable valley formed by what has been called the Landoha range. From this point the stream ran originally due east to Naugaun, and thence north-east into the Firozpur valley which thus got most of the water.
- "The Jats when they held sway over this tract towards the end of last century (see page 200, Gurgaon Settlement Report) made a large earthen embankment at this point, which diverted the water to the south and then by a semi-circular sweep brought it back to rejoin its old channel near Naugaun; but before reaching this point the Jats constructed another embankment across the new channel at Karaoli, which gave them the power of diverting the supply through the hills at Karaoli to the south-east of the Ramgarh Tahsil, or of turning it north through the old channel into Firozpur The result of this measure was to considerably extend the irrigation in the Ramgarh villages and reduce the supply for Firozpur.
- "No difficulty arose as long as both Firozpur and Ramgarh remained under Jat rule, but immediately they came under rival and separate interests, disputes began and continued till the Settlement of the Gurgaon District in 1877, when a joint decision for the future distribution of the water was arrived at by Mr. Channing, the Settlement Officer of Gurgaon, and Major Cadell, Political Agent of Alwar. This was sanctioned in the Punjab Government letter No 1639, dated 1st September 1877; and as the dispute may crop up again, the understanding some to may be explained here by reference to the attached plan.
- "(1). No obstruction is to be placed by Alwar in the channel D-D through which the water passes on to Firozpur.
- "(2). The Jat Bund No. 2 is to be maintained by Alwar so as to prevent in all seasons any portion of the stream passing to the east at that point through the channel C-C.
- "(8). A small masonry dam has been constructed F at the mouth of the channel E-E (through which the stream could formerly be diverted south-east) 2 feet higher than the level of the main channel at the point marked G, which is also defined by a masonry floor, so that the stream should ordinarily follow the channel D-D and thus re-enter its old channel north-east to Firozpur instead of being diverted south-east to Ramgarh
- "(4) The Gurgaon authorities to have right of inspection so as to assure themselves of the observance of the arrangement arrived at.
- "I have more than once inspected the place, and am satisfied that in the working of the above arrangements the Ramgarh villages have not suffered. At present more water seems to find its way through the channel E-E than through D-D, and there is also sometimes a spill through the embankment C-C by means of a sluice provided for the purpose. The latter, however, seems a precaution necessary for the safety of the "bund."
- "The value of the Landoha, from an Alwar point of view, depends on the maintenance of the Landoha Jat Bund No. I at Kharkhari opposite the gap in the hills to prevent the stream breaching the banks and taking a direct course east to Naugaun and Firozpur through its old channel Accordingly, of recent years the embankment known as the Atria Bund has been much strengthened and extended north and south, parallel to the hills, at a cost of over Rs 76,000 and is now 6½ miles long, of which 4,059 yards are faced with masonry. Notwithstanding these measures, in seasons of high flood the water escapes round the northern extremity or through the outlets in the masonry embankment towards. Akhlimpur, Mubarakpur, and Naugaun, where they rejoin the channel D-D."

It is difficult to ensure the maintenance of the masonry wall at F When I inspected this point of the works last April, I found the wall breached, and this was the case in 1902 when it was inspected by the District Engineer of Gurgaon under the orders of the Deputy Commissioner. Instead of seeing that the works were inspected regularly every year the Gurgaon authorities have very rarely excercised their right-of inspection, and the local Tahsildar has generally been ignorant of the fact that there was anything for him to inspect.

The important fact from the Firozpur point of view, is the recent longthening and strengthening of the Atria Bund, which instead of being a low earthern "dhol" as at settlement is now a dam 64 miles long faced throughout half its length with masonry. This alteration which was completed I believe in 1897 was first brought to the notice of the Deputy Commissioner, Gargaon, through a visit paid to the spot in 1902 by Mr. Macgregor, District Engineer. Extracts from the correspondence which ensued between the Political Agent, Alwar, and the Deputy Commissioner, Gurgaon, will be found at the end of this report. The Deputy Commissioner apparently acquiesced in the view taken by the Alwar authorities, and no further representation was made.

As since the commencement of the settlement operations numerous petitions have been presented by Gurgaon zamindars against the new bund, to the construction of which they attribute the almost total cossation of flooding since 1897, I inspected the bund on August 11th in company with the Chief Revenue Officer of the Alwar State I rode along the bund from its southern extremity opposite Bandeli up to the opening in front of Kharkh in where the small earthen bund shown in Mr. Channing's map used to be. For the first mile the bund is of earth only, thence onwards up to Kharkhari, and for some distance north of Kharkhari, the inner face of the band is strengthened with a strong in isonry wall. Near Kharkhari there are a number of masonry outlets, which when the floods run very high allow some of the water to escape over into the old channel, and thence due east to Naugaon. No one in Alwar some to I now when the original Atria Bund, shown in Mr. Channing's map, was lengthened, but it must have been done gradually after last settlement, as from papers which I was shown in Alwar it is clear that what was done in 1802 when Mr. Macdonald, the then State Engineer, began the work which has given rise to the present enquiry, was to stren ; hen and improve what already existed

After reading the report of Mr. Mergregar and from information received form my own subordinates, I went to the hand expecting to find that the extenrion to far south of the original hand had driven the Landoha out of the course mucked on Mr. Channing's map and coured it to flow further wait before regaining its old course below Rijus, thereby injuriously affecting the rights of Fire-par I do not, however, think that talk is the case. As for he Levally idea, without was me the streem actually in flowd, its present course is much the surget a unite good by Mr. Charming. To clear up the point the Almor anthonic class Finals earrental to have a surray of the present channel rande, and I am in correspond to see with them on one or two minir points connected with the extension of the band. The result of these enquires will, if rollic ently important, be reported sepressely, but I do not anticipate that I shall have anything to all to the engine of our first have just expressed. The eterom is being very contailly matched, on lifter energy do en in floor during the present rung energy, it eloubles points to energy to a delimite conclusion. There can be no do b' that on ine to t' a strong!" I be of the Atra Bund and to the arrows divided there has been a a majoritor and confirmain in Empire. In the first a large part of the first water with our and after For some Take I'm a large companies about the mid of more west to So give make thought not ben from channel to thingron. The eigen of the about me to the to the transfer and the and the company of the policy of the transfer of the t The state of the s

rain falls the Firozpur Tahsil will receive a fair amount of flooding, and more than this cannot be expected. The present rains have up to the time of writing been excellent, but they have fallen in short showers, and so far three inches is the most that has fallen at one time in the Landoha catchment area. Nothing less than 5 or 6 inches is sufficient to bring the Landoha floods into the Firozpur valley.

Since last settlement there has been correspondence with Alwar about the obstruction of a small stream called the Thek Nala, which eventually flows into Gurgaon A satisfactory arrangement was come to which is at present properly maintained. Its future maintenance should be watched together with the arrangements sanctioned in connection with the Landolia

After it reaches the Firozpur Tahsil the Landoha is joined by a number of smaller streams

The largest of these—"the Tirbain"—rises in Bhartpur territory, flows through Alwar and thence into the Firozpur Tahsil where it joins the Landoha at Doha a few miles from the southern boundary of the tahsil. The other streams are small hill torrents which flow from the hills on each side of the valley. The most important are on the west, the Bhond, the Jhir which rises just above the head-quarters town of the tahsil and gives the town its name of Firozpur Jhirka, and the Balauj on the east, the Ghata and the Darur are the chief streams. All these torrents, except the Balauj, flow down into the centre of the valley and eventually join the Landoha, swelling its floods, but they also bring down saud from the inferior bhur lands lying under the hill sides and do a serious amount of damage en route. The steps taken to dam or divert the most destructive of these streams will be described in the paragraph on bunds.

The slope of the valley is from south to north and the accumulated water of the Landoha and of the local hill torrents drained formerly into a deep depression called the Kotla Jhil which is situated on the north-west boundary of the tahsil, lying partly in Firozpur and partly in the adjoining tabsil of Nuh. In years of heavy rainfall this basin which received also the drainage of the whole Nuh and part of the Gurgaon Tahsils was submerged for long periods, and early in the history of the British administration of the district steps were taken to protect and drain it. The protective works and their result will be described in the paragraph on bunds

Under the eastern side of the central range of hills is a strip of inferior sandy soil similar to that on the west. It is much cut up by ravines and the Darur, which flows east as well as west of the central range, does considerable damage. This belt of sand ends in a depression or drainage channel which enters from the Nuh Tahsil at Shakhrawa and carries off the drainage from the hills (and in years of exceptionally heavy rainfall from the Nuh Tahsil) past

Lohinga Kalan into the Bhartpur State

Beyond this depression is a high-lying plain of good, firm loam which is a continuation of the great plain of loam characterising the Bangar circles of the Palwal and Nuh Tahsils. Here and there it is broken up by detached hills, but in the main it is level, and well adapted to canal irrigation which was introduced in 1875 from the Agra Canal

3 With so many hills and hill streams inside (and outside but influencing)

Bunds and Drainage Canals the tahsil it is obvious that the control

(a) Landoha Bunds of their drainage water is of considerable importance, and a number of bunds have been constructed with this object. I will first describe the scheme of bunds which affect the distribution of the Landoha floods after they reach this tahsil. These are not District Board bunds, having been constructed by or at the expense of the zamindars, and their sole object is to utilise to the best advantage the Landoha floods. The three most important are Kanmaida, Madapur and Nagli, which are mentioned in section 803 of the Gurgaon Settlement Report, and are notified under Schedule. II of Act. III of 1905 (Punjab Minor Canals Act)

Kanmaida —This bund is situated close to the eastern boundary of the town of Firozpur Jhirka it holds up the floods and forces them to spread over the lands of Kanmaida and Bilakpur before resuming their normal course.

Madapur and Nagli -These are important bunds as their object is to divide the floods at Nagli and send half the water in a north-easternly direction, thereby flooding the land of 17 villages which but for the action of these bunds would receive no floeding at all. Mr. Channing's edvice at the end of paragraph 303 has not been carried out. The bunds have not been carefully maintained and inspected, all are breached, and in 1899 it was discovered that the Talsildar did not know of their existence. The Madapur and Nagli Bunds broke in 1896-97, but as the Landoha did not come down in flood again until 1904, not much harm has been done. I have applied separately to be permitted to take ortion under section 52 of the Misor Canals Act in respect of these bands. If their repair is promptly undertaken it will be possible to judge of the result before the end of rettlement.

The above three bunds are the only bunds on the Landeba mentioned by Mr. Channing, but a number of others exist, which were, presumably, not considered of sufficent importance to mention. Most of them were in existence at list rettlement, and are mentioned in the village administration papers: they are generally low embanking att of earth which break when heavy flixels come. As there rillings hunds lead to constant disputes and as it is do ar illoth it to Calle ter should adjudicate on these disputes and prevent fresh one. from strems, I have proposed separately that Government should take action under extrem 47 of the Minor Canals Act, and I do not propier to deal farther with these hards

The remaining hands are all an let the control of the District Pinel and are petited name Sel dale 1 of Act III : 1 1945. They round divide the two clusters. A, hands which form part of a general data of drawage with any Il, reduted hands were ened to eleck dams to from fall torrects

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is serious Mr Machonochie (vide paragraph 7 of his printed note on this bund) recognised this defect and to remedy it had a sluce constructed at Hasinpur to allow the flood water to pass inside the bund, but the volume of water collected by the bund has been too small of recent years to permit of this reinedy being effective.

On the whole the Kotla Bund is a valuable work, and I do not think that any idea of abandoning it can be entertained. It is true that owing to the network of bunds constructed in the Nuh Tahsil and to the recent dry seasons the Kotla Jhil instead of being submerged has lately suffered from a lack of moisture, but this is an abnormal state of things, and in years of good rainfull the Jhil will probably still require the protection which this bund affords

Mau—This is a small bund inside the Kotla Bund which was constructed by Mr Machonochie in 1890 to hold up for the benefit of Mau village any water turned inside the Kotla Bund through the Hasanpur sluice (mile supra) and to prevent it pouring direct into the Jhil—As Mi Halifax has recorded in his printed note, this bund worked well until 1897, but since then no water has passed through the Hasanpur sluice—For reasons which I have already recorded I do not think that in future flood water will ever reach this bund, but it had better be retained by the District Board for the present until the effect of a return of normal seasons has been ascertained

The drainage of the Eirozpur valley and of the Nub Tahsil, diverted from the Kotla Jill, collects at Sangel and Lohinga Valley Canal and Shakrawa and Shah Choka Bunds Uppna in the Nuh Tahsil The only escape for this water is into the Firozpur Tahsil down the depression between Shakrawa and Lohinga Kalan mentioned in paragraph 2 A shallow canal has been in existence for many years which facilitates the passage of the water, and in years of exceptionally heavy rainfall a large volume of water passes down it Mr Channing describes, in paragraph 9 of the Assessment Report of the Firozpur Tabsil, the arrangements which were in force at last settlement and notes that the overflow from the Nuh Tahsil is of very rare occurrence At last settlement the canal was in charge of the Canal Department, and a water-rate of annas 4 per pacca bigha was collected on all flooded land but the Canal Department abandoned charge of the work soon after last settlement. The water after flowing down the Lohinga valley eventually passed off into the Bhartpur State, but much of it was left behind in the pools and hollows round Lohinga To drain these pools and to better utilise the sapply of water two bunds were erected by Mr Machonochie across the canal at Shakrawa and Shah Choka in 1887 and 1888, respectively. They were formed by raising the level of two District Board roads which cross the canal at these points and they thus served a double purpose, raising above flood level roads which had previously been impassable for months in the rainy season and causing the flood-water to spread over a much larger area than was formerly irrigated Each bund is supplied with a sluice, which is opened as soon the water collects, and allows it to pass on down the canal Since the bunds were constructed there has, I believe, only twice been an overflow, and no water has come down since 1897 As it is improbable that the Landoha floods will ever again reach the Nuh Tahsil, and as the surplus water of the Nuh Tahsil has been decreased by the network of bunds constructed there since 1885 an overflow from that tabsil will probably be an even rarer occurrence than before, and it would hardly be worthwhile to maintain these bunds as irrigation works, but as they are useful as roads they should be maintained

B The above are the only District Board bunds in this tahsil which form part of the district drainage scheme

The remainder are isolated bunds constructed to control the destructive action of hill torrents

Ghata Shamsabad Bund—The stream, which issues from the hills at Ghata Shamsabad and has a fairly large catchment area, pours sand over the lands of Kanmaida, Hirwari, Madapur, Allipur and Tigra The damage is very serious and to check it a masonry bund was constructed by Mr Machonochie in 1890 at the point where the stream leaves the

hills, but the force of the stream at this point is tremendous, and the bund was breached in 1903-04 and has not since been repured. The bunding of this stream is a most accessary work and should be undertaken as soon as possible. A bund would probably be more effective a little lower down stream than the apot previously selected

north of Ghota Shamsahad. The branch which flows west of the control range was formerly very destructive, and caused great Gamage to Rounds, Raniah, Dugha, Hamrapur, and one or two other villages. On account of the Gamage reductions of load revenue were necessary at lost softlement and at the resision. An embrokment was devised by Mr. Machonchie at Rawa where the water issues from the hills, and was completed in 1892. The work seems improposal and has rever been breached, with the result that the position of the villages formerly dear and has greatly improved, and it has been possible to re-impose rest of the researc, resulted. The Rowa Bund is a most useful work and should be ear fally in unfamed. Lake the Ghota Bund it is parely protective and there is no read stable in agreement from it. It walks has in the improvement which it has effected in the soil of the estates a both it benefits.

Danger! Band -- The bound is on the bravels of the Danger 1 is, they a cort of the central range of balls towards the Lobings willer. The rate is a mountally good one, as the band completels blocks the path of the stream is but, at the constance the band is constructed, process between two span. To be add a refix the vallage of Dangoella, and helps to draw the Lobings. By, but it was breveled in 1896-97 and has not such bear reported. The Danger do a great dock of damage is fore it reaches. Damagella, and is draw the reserved in a contract dock of damage is fore it reaches. Damagella, and is draw the reserved in the time and barries benefit id, if it could be successfully a servent in I do not time the exist of band ought to be repaired, unless it will be discipling a profitable, so it is an entirely a "productive" and not a "protective" and I contracted according a contractive " and not a "protective" and I contracted according to contract the course of the Dawe, it would be "protective".

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recorded as irrigated, and the abiana levied on the remaining five bunds since 1891-92 —

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* Not available

The above statement shows that since 1897 there has been no flooding except on the Kotla Bund and even on that bund the flooded area has largely decreased. This is due partly to the dry seasons, but partly, as I have already pointed out, to the fact that the Landoha floods never now reach the north of the Friozpur valley, and so much of the decrease as is due to the latter cause is likely to be permanent. The present rates of abiana and the method of assessing irrigation from bunds will be discussed in the chapter on assessment

At last settlement Mr Channing constituted 5 Assessment circles. The highlying loam plain to the east Assessment Circle formed one circle called Punahana. The belts of blur on both sides of the central range and east of the western range formed a second circle called Bhuder, while three circles were formed The southern portion of the valley which was out of the valley proper flooded by the Landoha in years of ordinary rainfall was formed into a The central portion which was separate circle under the name of Landoha not reached by the Landoha except in years of exceptionally heavy rainfall, but which benefited by drainage water from the land to the south and from the hills on either side was Mr Channing's Mandikhera circle, while the lowlying area in the north of the tahsil, characterised by the presence of a hard black clay soil and by the siltness of the subsoil water formed a third circle called Chik-As already noted 15 villages were transferred from the Nuh Tahsil at the end of last settlement

The preliminary report on Assessment Circles was submitted by Mr. Hamilton, and his proposals were sanctioned in No. 3163, dated 6th September 1904, from the Settlement Commissioner

· The former five circles were reduced to four The Punahana circle was retained under the name of Bangar and now includes also 14 out of the 15 villages transferred from Nuh. The characteristic of this circle is the prevalence of the hard dry loam which resembles but is inferior to the loam of the Palwal Tahsil. It is capable of producing excellent crops when irrigated or when moistened by abundant rain, but it requires more rain than it usually receives. Sixteen per cent of the cultivated area of this circle is now canal irrigated and further extensions are possible. This is fortunate as well irrigation is very inferior, the wells being generally salt and being only used in dry seasons, as

the salt water if applied regularly to the hard soil, which in the case of the well lands is often clay, would cause it to ceriously deteriorate.

The Bhuder Circle was maintained under the same name.

The characteristic feature of this circle is the fairner sandy soil, which near the hills is hardly worth cultivating, but improves further from the hills and often ends in good low-lying learn or clay. The inferiority of the farant soil and the comparative absence of natural flooding makes well-irrigation compulsory, and the wells are regularly used. The water is almost invariably sweet, though those wells which are in close proximity to the hills are generally rather deep.

The three former circles of the valley were combined into two on the basis of the quality of the well water. In the former Landoha Circle the well-water is generally sweet, the wells are regularly used and the irrigation is the best in the tahsil. In the old Mandikhera Circle there is less flooding from the Landoha, and the wells are consequently salt, though the barani soil is as good as, if not better, than in the Landoha Circle, while in the Chiknot Circle the number water is so salt that hardly any irrigation is possible at all. The Mandikhera and Chiknet Circles were, therefore, combined into one circle under the name of Dahar Khari, while the Landoha Circle was kept as a separate circle and called Dahar Mitha.

I repret to say that after carefully considering the question, I have been unable to maintain the Dahar Khan Circle in the form proposed by Mr. Hamilton The clubbing together of the old Mandikhera and Chiknet Circles is from the point of view of Assessment statistics and future revenue management unworkable. It is true that the water in both is solt and that the prodominant rold is chiknot, which were Mr. Hamilton's reasons for combining Mr. Character two northern circles and keeping them a parate from the Landolm Circle, but is the old Mandikhera Circle the soil through chiknet is the best in the district, while in the Chiknot Circle it is almost the mast.

I grote from section 61, paragraph, 7 of Mr. Wilson's Revision Report the following remarks:—

"It is true that the original Laudolia floods do not eften reach farther north than Sakras, but the Laudolia supplies only a part of the marginer of the Laudolia supplies only a part of the Laudolia supplies. Even should none of the Laudolia starts reach so far, the runfill of the whole lauriture Velley, an area of Runquare suchs, must (so must of it as shoe and so that he ground) flow ever that Maudiklem on its way to the low of interpolated by pland Baylem; and protting proton part of thek Mandikhem is a molying, the soil over the proton directly flooded scome to be kep to at our part of the runfill pland proton in the proton of the parts of the rules of scome to be suffer from another, on the term of the last temperature there is a son or other from another a consistent in the Lot of the ford tulered as later as a good, me at paleado soil."

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Dahar Khari Circle. I regret that this change in the sanctioned circles has not been previously reported for orders, but it was only recently decided on, and I have not delayed this report on account of the change. I think my proposals will be found to be justified by the assessment statistics—specially Statement, X and XV, and for the purposes of future revenue management I consider that they are absolutely necessary

Soile,

5 The classes of soil recorded at last settlement were as follows —

Chalin , Land irrigated from wells

Dahrı .. Land which received the drainage from the hills or higher-lying lands

Chiknot .. Hard clay soil
Narmot Hard loam soil
Magda . Light loam soil

Bhur Sandy soil

There were, of course, in addition the usual classes of uncultivated lands.

The classification of soils sanctioned for this settlement is as follows .--

- (1) Chahi —All land regularly irrigated from a well, whether the well is constructed with masonry or not, and whether it is worked by bullocks or by lift (dhenhli). Land will be regarded as regularly irrigated if it has received water in two different years in the period 1898-99 to 1902-03, provided the means of irrigation are still in existence
- (2) Nahrı —All land regularly irrigated from the Agra Canal Land will be regarded as regularly irrigated if it has received canal water in any two years from 1898-99 to 1902-03, or is irrigated at the time of measurement
- (3) Chahi-Nahri —All land which is regularly irrigated both from the canal and from a well, whether the canal and well are used in the same harvest or in different harvests. All land which has been irrigated from the canal in two years out of the five years 1898-99 to 1902-03, and has also been irrigated from a well in 2 years during the same period will be regarded as Chahi-Nahri
- (4) Abi —All land which is irrigated from tanks, jhils, springs or from river branches or by District Board bunds. Both the lands flooded by water held up within the bund and also the lands irrigated by cuts from the bund will be included
- (5) Dahn —All land which in years of normal rainfall receives the dramage from the hills or from higher-lying lands
- (6) Ohiknot —Hard clay unirrigated soil which does not usually receive flood water
  - (7) Narmot -Fairly hard loam soil which receives no irrigation
  - (8) Magda —Light and somewhat sandy unirrigated loam soil.
  - (9) Bhur —Sandy unirrigated soil

The uncultivated lands are recorded as laid down in the Land Revenue Rules

Comparing the classification of last settlement and now, it will be seen that the subdivision of *chahi* by soils has been abolished, as where the land receives irrigation the nature of the soil is of minor importance, while the definition of *chahi* has been altered so as to conform with the prescribed rules

The classes of nahr, chahi-nahri and of the barani soils (chiknot, narmot, marda and bhur) have been discussed in the Palwal Assessment Report, and the mo remarks apply. It may be noted that the argument for reducing the classes of barani soil applies with even greater force in this tahsil, as cash-rents will show

Abi.—In this talisil abi is land which is irrigated by the District Bosed bunds mentioned in paragraph 3. Owing to the abnormal character of the sensors the work of classification has been extremely difficult. The statement in paragraph 3 shows that there has been no flooding from any bund since 1897, except the Kotla Bund, and this is the only bund which has a recorded abi area. It was found after many attempts improclicable to adopt the area irrigated in any particular year or years, and the classification was based on a careful examination of the land, and to a certain extent on the admissions of the zamindars. It may, I think, he accepted as correctly representing the area which in a normal series of years will be fairly regularly flooded.

Dahri—As already explained, the classification of drive in one of the problems of the assessment of this taked. The area flooled by hell-foreats as distinct from the Landolia has been fixed by the Taked in and Nach-Takeddars after careful observations on the spot. As regards flooding from the Landolia, I have ordered all taxant land which was flooded, both in 1991 and 1996, to be recorded as dahri. The area actually flooded in these two years was carefully measured, and there is no doubt as to the correctness of the recorded area.

Owing to the almost total consistent of fleeding often 1-97, and to the possible connection therewith of the alterations to the Atria Burd, Mr. Hamilton, in 1904, ordered all lands flexifed by the Landsha to be recorded as literary, but I do not think that such a possimistic attitude is justified, and it does not experience oversanguing to ant capate that the moderate area now classed as dobrewed by fooded whenever really heavy rain falls. It must be borne in mind that a fairly large part of this area is flooded by local drainage independently of the Landsha

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Property the same exerge, and the roughl of the whole fated may, therefore, be tolen to be uniform. The year has been air deal into two periods—the months of monsoon roughl and the rect of the year. The following table compares the former and the present figures, and the firsts of the adjoining tracts are included for purposes of comparison.—

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#### CHAPTER II —GENERAL STATISTICS

Area.

7. The following table compares the total areas of the present and two preceding settlements —

1	2	3	4	5	6
		Percent	AGE ON TOTAL	AREA OF	
	Total area		Otiltu	rable	<b>R</b> еманкя
	in acres	Uncultur- able	Unculti- vated	Cultivated	
First regular settle- ment	1,92,924	17	31	52	The difference between the areas of the lst and
2nd do	2,02,644	16	2	82	
1905 06	2,01,966	16	2	82	end of the second settle- ment of 15 villages from the Nuh Tahsil

The figures of the first regular settlement are taken from Form A of Mr Channings' Assessment Report of the tahsil, and the figures in column 4 include fallow. There was a large increase of cultivation between the 1st and 2nd settlements, but cultivation had reached its utmost limit at last settlement, and very little change has taken place during the last thirty years

But for a considerable decrease of cultivation in the Kotla Basin there would have been no change. As it is there has been a small decrease, as the statement which will shortly be put in shows.

In the Mewat the pressure of population on the soil is exceptionally severe, and it is impossible for the people to maintain even a moderate area of culturable waste for grazing purposes. The percentage of culturable waste is largest in the Bangar and Chiknot Circles, because in the former the hill area is smallest and in the latter a large part of the Kotla Basin is left uncultivated. In the Bhuder, Dahar Mitha and Dahar Khari Circles it amounts to a very small percentage, but the first two of these circles have a moderately ilarge hill area which affords fairly good grazing, and they are therefore not so badly off in this respect as they appear to be

The areas of each class of cultivated and uncultivated soil at last settlement, and now, are compared in the following statement.—

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The present figures are taken from the measurement papers in the case of finished villages, and from the jamabandis of 1902-03 in the case of unfinished villages The classification of soils is very easy in this tabsil, and was very carefully made at last settlement. No correction has been necessary, and the changes in the distribution of the various soils are due to the different method of classifying chahr, to the introduction of the new classes of nahri and abi and to the all-round decrease of the dahri or flooded area. The recorded abi and dahra areas are by no means final, as no reliance can be placed on the classification of these soils in the jamabandis, and even in the case of finished villages many alterations were made when the villages were inspected for assessment. The correct areas and percentages in each circle of abi and dahii, which have now been classified according to the principles stated in paragraph 5, are as follows -

1		2		3
Circle	, Area in	I ACBES		TAGE ON ED AREA.
	Abı	Dahrı	Abi	Dahrı
Baugar Bhuder Dahar Mitha Dahar Khari Chiknot  Total Tabail	82 614 361 1,057	754 943 4,364 875 152 7,088	 3 3	1 2 18 4 1

The dahr area in the Chiknot Circle does not include 842 acres flooded by the water which collects in the Kotla Jhil, and which are under fluctuating assessment

The chief features of the statistics of cultivation are—(a) the great improvement in the Bangar Circle, effected by the introduction of canal irrigation, (b) the serious decrease of flooding in the Dahur and Chiknot circles, due to causes which I have already explained. The enormous decrease in the Chiknot Circle is due partly to an overestimate of the dahn area at settlement, partly to the action of the Kotla Bund in placing out of the reach of floods the village es which he inside it, but chiefly to the breaching of the Madapur and Nagli Bung ds, and to the fact that the Landoha floods do not now reach the north of the valling

Well-irrigation is not of much importance in this tabil, the also

classed as chalic amounting to only trea Irrigation.
(a) Wells per cent of the cultivated area Bangar and Dahar Kharı Circles, where the soil is hard and the water generatilly salt, wells, if possible at all, are used only when the rainfall is insufficient to mature a barani crop. In normal years the difference between the yield of an irrigated and unirrigated crop on wells of this class is not sufficiently large to compensate for the extra expense of irrigation, and the lazy and poverty-stricken. Meo naturally avoids the labour and expense of working has well as for an according. In these two excelses are recovered and expense of working In these two circles irrigation is inferior and is his well as far as possible purely protective In the Bhader Circle the wells are sweet, and in villages where the barant soil is too weak to permit of rabi sowings they are regularly used. In the Dahar Mitha Circle also there is a good deal of light soil, and as the water is sweet and very near, and as most of the villages adjoin the market town of Firozpur Jhirka, well irrigation is easy and profitable In consequence the wells are regularly used, except in years when the chahi lands happen to Statement XV illus rates the above remarks, in the Bangar and Dahar Kham Circles the chahi cash-rent is little higher than that of good barani, while in the other two circles there is a considerable difference

In the Cihknot Circle the sub soil water is so salt that well irrigation may be said to be non-existent

A feature of the well irrigation of the Dahar Khari Circle is the enormous expansion by means of carthen wells and dhenklis which takes place in dry years.

In the low-lying lands of the valley water is so near that temporary wells can be sunk at a nominal cost They fall in with the first flood or heavy fall of rain, but can be so-constructed whenever necessary, and are freely resorted to in years of drought. This is a considerable source of strength to these circles, and it does not come out in the irrigation data given in Statement III, as tho earthen wells and dheallis shown in that statement are those which happened to be in use at the time of measurement that it is brought out by a comparison of the irrigation figures of Statement III with the area of average irrigation from wells for the years 1900-01 to 1904-05 given in Statement II. The areas are compared b lon-

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Oring to three out of the five relativity ten 190 401 and 1904-05 being exceptionally poor, there was a large expension of temperary irrigation in the Dahar Khari and Chil not Circle. A cortain number of all of the regularly norked by mail and change tenants for the cultivation of volumble spring crops, but Meas only use temporary wells in turns of dought

Moreover, wells are reactify marticet, but close to the falls well of har fo probabitions (form there eminon Me Bougley, in the Auth Tale I, find that a mastury well cortains 20 per cabit to construct. In the tabul the cost would be exactly the same, and to obtain the cost of an exercise well in each a relative we have only to edealate from 5' no ment III the total depth of a well in cubics and multiply by Rs. 20.

The resulting coes of a majority well in such circle is approximately so 30 OF ----

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The wells are all worked on the charas and lao system, and two yoke of oxen are invariably used. For the cost of the well-gear and of the bullocks I would refer to my Rewari Report, simply noting the fact here that the cost of these accessories has increased enormously in recent years.

Detailed statistics of wells and irrigation are given in Statement III In a tahsil like this, where the wells are not regularly used, a comparison of the figures of last settlement and now is not of much use. The settlement figures are only for one year, which happened to be a year of exceptionally good rainfall, and consequently the number of wells in use and the area irrigated are much below average. To obtain a more reliable estimate, Mr. Wilson took the average of the year of settlement, of 1881-82 and of 1882-83. The irrigated area of settlement compares with this average area as follows—

	1		:3	2	3
	Circle			Settlement area	Average of the three years
Bangar Bhuder Dahar Mitha Dahar Khari Chiknot	•		, ,	885 2,200 1,528 765	1,556 2,262 1,164 653
,	Total Tahail	•		5,378	5,635

The large decrease in the Dahar Circles was no doubt due to lack of resources, as they suffered severely in the bad seasons between 1878—1883. But for the effect of the famine Mr. Wilson's figures would probably have shown an increase of irrigation in these circles as in the other two. The present figures are the average of the 8 years 1898-99 to 1905-06, but as these years contain an unduly large proportion of bad rabis, the number of wells in use and the area irrigated is probably much above average. It is obvious from the above remarks that it is extremely difficult to make any reliable comparison of irrigation at settlement and now, and the figures in Statement I are of very little use. There appears to have been a considerable increase all circles except Chiknot, and this supposition is borne out by the large increase in the number of wells, at the same time, for reasons already given, the increase is probably not as large as it appears to be

The average area irrigated per lao is very small. The area irrigated and actually irrigated, in a year when a well is used averages 5 acres, but it little less in the Bhuder Circle, where the wells are somewhat deep and the soil sandy, and a little more in the Dahar Mitha Circle, where the lift is easy. As the wells are not regularly used the average area irrigated is less than the area irrigated and irrigated in any one year

The information required by correction slip No 3 to Settlement Commissioner's Circular No 21 is as follows —

1	2	2	4
Assessment Carolo	Number of masonry wells in use at the beginning of the expiring settlement which have fallen out of use during its term	Number of new masonry wells sunk during the term of expiring settle- ment and still in use	Number of masonry wells which were not in use at the beginning of the expiring settlement but were repaired during its term and are still in use
Bungar Bhuder Dahar Mitha Dihar Khari Chiknot	44 45 33 13 4	102 123 63 80 2	69 65 20 37 6
Total	139	369	197

Most of thereflorks in pringraph 5 (b) of the Palwal. As a mont Report apply to canal irrigation in this tokell also, and I need to report them lone Irrigation are introduced at 1875 and had been extended to five villages in the year in which Mr. Channing wrote his Assessment Report, thank there was none in the year of incomment (ride Aignsment Report, purigraph 5)

The following statement shows the areas irrigated in each year since of 1881-82. The figures for the first two years are taken from the Resistent Report, paragraph 9, and for the remaining years from the tausil pote-twok:—

Carletone mine and		1				<b>2</b> 5	7	<b>4</b>
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Fig. 184 Fig. 184 Fig. 187 Fig. 1		•	•	۳			1372 1, 27 1117 27 2 74 2 27 2 27 2	のでは、大きななが、 のでは、大きななが、 は、これでは、「ないです。」 は、これでは、「ないです。」 は、これでは、「ないです。」 は、これでは、「ないです。」 は、これでは、「ないです。」 は、これでは、「ないです。」 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これできる。 は、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これで

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Another project which has already been sanctioned and will be completed this year is the Hathin-Bhartpur escape. This will also relieve water-logging. It takes off from Paosar in the Nuh Tahsil where the water-logged area on the Hathin Rajbaha commences, and after making a semi-circular sweep through the Firozpui Tahsil ends in Bhartpur territory where it will be joined by the Paosar Drain. The removal by means of this escape of all surplus water will considerably benefit the villages below Paosar.

As the map shows, it is proposed to make small extensions of irrigation on most of the existing minors, and these will probably be carried out within the next three or four years

The canal dues in force were detailed in the Palwal report

The following table shows the areas irrigated during the five years selected for the produce estimate according to the records of the Canal Department —

	1	2	3	4	5	6	7
		A	REA IN ACHES		Occupier's	Owner's	
	YEAR	Flow	Lıft	Total	rate	rate	Total
1900 01 1901-02 1902 03 1903 04 1904-05		7,506 9,210 8,637 9,010 6,488 8,176	689 945 891 895 620 809	8,195 10,185 9,531 9,905 7,108 8,985	Rs 23,671 31,262 28,887 29,964 22,605 27,278	Rs 7,554 10,052 9,235 9,630 7,257 8,749	Rs 31,245 41,314 3e,122 39,594 29,862 36,027

The canal dues are at the scale in column 2 of the comparative table of rates given in the Palwal report and average Rs 4 per acre on the area recorded by the Canal Department This area is 548 acres or  $6\frac{1}{2}$  per cent larger than the matured area in Statement II Canal dues at the present scale average exactly the same as at the old scale

This tabil has always been the worst in the district as regards communications It contains no metalled Communications and marts road, though one is about to be constructed from the town of Firozpur-Jhirka to the town of Nuh (24 miles), and as a metalled road from Nuh to Palwal (22 miles) is also under construction, the villages situated in the north of the valley will get direct communication by metalled road with the Agra Delhi-Chord Railway at Palwal The villages in the south of the valley are connected by a metalled road with the town of Alwar on the Rajputana-Malwa Railway Formerly the road was in a very bad state of repair, but it has recently been repaired and is now in very good order. If possible the road from Nuh to Filozpur should be extended up to the Alwar Most of the produce of the Bangar Circle finds its way to Kosi in the Mathra District This important market town is now on the Agra-Delhi-Chord Railway, the opening of which in 1904 has immensely improved the The town of Hodal, which is on the same Railway, position of this tabsil is also within easy reach of the villages of the Bangar Circle A "feeder road to Hodal or Kosi, if possible from Firozpur-Jhirka, or if this is impracticable, from the eastern side of the central range, would still further improve communications

Within the tabsil itself Firozpur-Jhii ka serves as a mart for the produce of the valley, while the produce of the Bangar Circle is disposed of at Punahana, if it is not conveyed direct to Hodal or Kosi Cotton, wheat and oilseeds are the chief articles exported Cotton is, if posssible, conveyed direct by the cultivator to Palwal, Hodal or Kosi, and sold at the ginning mills wheat and oilseeds are disposed of locally to the bania

The former and present figures of cattle are given in Statement IV

Cattle

The changes in the number of ploughs and bullocks correspond with the changes in the material condition of the various circles the Bingar and Bhuder Circles have prospered, while the Dahar and Chiknot Circles have deteriorated, and in the

two first circles we find that ploughs and owen have increased, while in the three last tien has decreased. The following statement shows in each circle the area cultivated per pair of bollocks at sattlement and now, and the increase and decrease per cent of ploughs and bollocks. I have mad a deduct on from common p for bulls at the rate of one built for every 50 coms.—

The state of the s	2 ;	* { 5	
	Arsa cristicam e esploy be or selecte in anose	In the property of the state of	
Circle	Settlement   Now	Bullockt Pinnil	
Harger •	16   16   16   16   16   16   16   16	-7 -15 -15 -17 -71	

The exthement area in y be taken to represent the proper area culturable per plaugh in each circle, except Chiknet, where the extrement area is too high, and the members in the present area in the Polar and Cricrot Circles resulting from the decrease in ballo he and plaught is very scripts. In the Bangar Circle plauds and billocks are sufficient, while in the Blinder Circle they are more that sufficient.

In a table I with the area arrabible for growing a so limit of, the author for state offer their places a tile a security some erroll, and early a soft of the places at tile a security for down to purpose, and if a security all states of the first all allows for a latter than a security of the first and area of the allowing for a latter than a few cases of the first area of the allowing for a latter than a few cases of the first and the table of the first and the security of the security o

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3 · ·	*	,	:	* * * *		

Pinangwan and Punahana The resulting incidence per square mile of cultivation in each circle is as follows —

Bangar	•	•		•	517
Bhuder					468
Dahar Mitha					491
" Khari					465
Chiknot		***			295
		Total Tabe	lte		478

These would not be very high rates for fertile, well cultivated and well irrigated soil, but they are high for this tabul with its small proportion of artificial irrigation and for Mee cultivators. The improvident Mee has always been notorious for the number of his children (vide Section 56 (2) of the Final Settlement Report of Guigaon) and the population question is a serious one in the Mewat. Cultivation had reached its limit 20 years ago, population is already pressing very heavily on the soil, and given normal seasons, it must continue to increase, yet so great is the attachment of the Mee to his native Lind that no relief can be looked for from emigration.

Tenures and holdings

12. The following table shows the prevailing forms of tenure —

			F			
1		2	3	4	5	6 ,
		ZAJII	\DARI	Impartact	Imperfect	
Assessmen	it Circle	Single landlord	Communal	Imperfect pattidari	bhaiyn- chara	Total
Bangar Bhuder Dahar Mitha -,, Khari Chiknot	•	1	4 4 1	∃8 7 4 3 1	61 47 25 31 17	103 58 31 34 18
	Total	1	9	53	181	244

Statement XI shows that nearly 60 per cent of the cultivated area is cultivated by the owners themselves, and the percentage would be much larger but for the large area transferred to outsiders. The owners are almost without exception small peasant proprietors, holding the minimum area necessary for their maintenance.

The following statement shows the average area per holding, the average area per owner and the net area per owner free for profit after deducting the area transferred to outsiders and cultivated by tenants free of rent or paying at revenue rates. Villages owned by a single owner and land owned by Government have been excluded from the calculation of the area in column 7.

1	2	3	4	5	6	7
Assessment Circle.	Year	Year Number of proprietory holdings		Area per holding	Aren per owner	Net area per owner available for profit
Bangar Bhuder Dahar Mitha ,, Khari Chiknot	Present Set- tlement	11,048 5,889 4,885 7,298 3,206	Acres 67,241 38,688 25,490 20,908 11,950	Acres 6 1 6 6 5 2 2 9 3 7	Acres 7 2 8 7 9 5 9 6 4	Acres 5 4 6 5 6 3 9 4 2
Total .	•	32,326	164,277	5 1	7 5	51

The area in column 7 is sufficient in the first three circles, but even in them the distribution is alter uneven, and there are many villages where the area per owner free for profit is not more than 2 acres. In the Dahar Khari and Chakret Circles land is altogether insufficient and the pressure of population on the call excessively severe. In these circles there are many villages where the area free for profit is less than 1 acre per owner, and the problem of how to assess such villages is a very difficult one.

It should be noted that in calculating the area in column 7 I have only deducted the area transferred to "other-". If I lead acclusted the whole area transferred the net area per owner would be still smaller, as the area transferred to "others" is little more than one-third of the whole area in alternia.

13. Statement V shows the distribution of owner-hip by tribes. The Theory of the proprietary body, is composed almost without exception of Mece, who are a large, thriftless and improvident tribe, though to quote the words of Mr. Obanning (Assessment Report, paragraph 16) "how to characterize them as cultivaters I hardly know." As a cultivator the discuss generally what his surroundings make him. In the valley, where the assessment is high and the pre-sure of population on the soil severe, the cultivation is of a high class, and the people are industrious. Similarly in the Polwal Tabad, where the assessment is severe for Meos, and the etandard of cultivation set by the surrounding data high, the few Meo villages are noted for their industry and good cultivation. In the Bangar Circle of the tabad, on the other hand, where the assessment is somewhat ught, it equification is clovenly and more in accordance with the traditional habits of the trib.

As Mr. O'Dayer has pointed out in paragraph 22 of the Assessment Report of Tabila Kishengarh and Ramgarh. "While the menanciary the worner are encrycted and industrious and do most of the field a rill except the plengling." Mr. O'Dayer sums up the character of the Messas follows—

"Allare a like impulsive, the resighted, excity led, especially in the irroup direction, lit plous, not hospitable for Mushima so but minorally extravorant on rorthun occasions, such as weldings and furerals. They must the stamps of the Lots. Prosperity turns the head of a Med, a living makes him foca it, may extraor they themselves feedly admit they are only good in hile light well index. The faculties are bewever sharper than there of any other tubes except perhaps it Alurs, and this makes them keen defer ders of the room interests and quick to observe and resort any majerioes."

To this description I would add as an investor of their improved non-their they are addeded to a precise of "belon." They between I can the region to be before a seas which is to be reported to he age that I in. So of the start of the produce is to be dispersed of the gentral I in. So of the season he notice are belong to he approve, and the debeer would be a season at the season of the season and the season of the season and the color are season as a season exist at the market true, which is probable to a season as the season and the market true, which is probable to a season as the season which is probable to a season and the season and the season and the season are the season as a season and the market true, which is probable to a season and the season are the season as a season are the season and the season are the season as a season are the season as a season are the season as a season as the season are the season as a season are the season are th

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 mortgage, and the latter gives the annual total of sales, mortgages and redemptions from 1885 to 1905-06. Rehable figures are not available before 1885. The following table compares the state of transfers at last sottlement and now. The top figure is the percentage of the cultivated area transferred and underneath in brackets the price per acre is shown in even rupees—the settlement figures are taken from paragraph 13 of Mi Channing's Assessment Report and Table II appended to the Report—I am unable to give details of sales before settlement by circles as Table I is missing. The percentage of transfers before settlement is calculated on the total area and of existing transfers on the cultivated area.

As the present Dahar Khari and Chiknot Circles do not agree with Mr. Channing's Mandikhera and Chiknot Circles, I have given the total percentage of

mortgage in the two former cucles -

1	2	3	4	5		
	SAT	TE8	Mortgages			
	Before Settlement (1857-75)	Since Settlenient	At Søltlement.	Now		
Bangar Bhuder Dahai Mitha ,, Khari Chiknot	,	(Rs 111) 5 (Rs 43) 14 (Rs 20) 5 (Rs 116) 2 (Rs 50)	6 (Rs 17) 6 (Rs 22) 8 (Rs 22) 16 (Rs 32)	29 (Rs 49) 27 (R 42) 37 (Rs 37) (Rs 87)  (Rs 58) 47 (Rs 38)		
Total Tahsıl	(Rs 32)	4 (Rs 38)	8 (Rs 24)	S4 (Rs 46)		

The area sold is very small. The attachment of the Meo to his native soil is extraordinarily strong and he would rather mortgage 100 acres than sell one. The large percentage of sale in the Dahar Mitha Chicle is due to the sale among relations of the whole village of Doha (paragraph 12). Excluding the area of this village the percentage is reduced to 3, while the average price is raised to Rs 33 per acre.

The area mortgaged is on the other hand very large and is worst in the two Dahar and Chiknot Circles. As regards mortgage the condition of this tahil is bad, but not as bad as it appears to be. The extravagant and improvident Meo, though averse to selling thinks nothing of mortgaging his land, especially if he has a little more than the bare minimum required for the maintenance of his family, a bad harvest or a wedding will involve him temporarily in a mortgage, but he expects if the seasons are favourable to be able in a few years to redeem his land, and Statement VII shows that he does so in the second and third periods which were years of prosperity the area redeemed equals the area mortgaged. Another satisfactory feature is the large proportion of mortgage to members of an agricultural tribe it amounts to nearly two-thirds of the whole, and most of it is in the hands of co-sharers. Extensive mortgage therefore does not necessarily mean anything when the mortgagors are Meos, and in the Bangar and Budher Circles mortgage is not sorious. In the other circles, however—especially in Dahar Khari and Chiknot—the state of affairs could not very well be worse

In many villages in these cuicles the area mortgaged is so large that no margin is left for comfort or even for the bare maintenance of the mortgagor Most of the mortgage to "others" took place in the bad years immediately after last settlement, when banias acquired possession of large areas

In the Mewat the Land Alienation Act has proved of immense benefit to the people As Mr Wilson says, their careless habit of contracting debt for marriages, funerals and petty luxures even in average years formerly placed them absolutely at the marcy of the money-lender when a year of drought wires. When one in Men has mertgined his land to a money-lender, he is rule to he with it. He would cultivites it lumself at a reel, wait, which can only by pril in favourable se wons, and before the passing of the Land Alichaton Act that penalty attached to default of payment was further mortgage v.

This state of uffore is now at an end, and the decision of narrows in the two Dohar Curdes since 1901 is most satisfactor. The following table shows the totals of unaccured debt in each circle:—

1	2	To detain the second se	4	5,
	والمتعارض والمتع	Landel, 1 ft.		
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In this statement the barani soil classification is that of last settlement with the modifications introduced by patwaris at crop inspections.

17. Statement X shows the area matured at each barvest in each circle during the last 21 years, and the percentage which the matured area bears to the cultivated area. Periodical averages have been struck which show that in all circles the first two periods were above and the last two below the average. The kharifs are nearly average all through and the deficiency in the last two periods is due entirely to the long series of bad rabis since 1896

In the Bangar Circle owing to the influence of the canal the recorded percentage of matured to cultivated area exceeds 100: but as will be shown later the failed area in this circle has been considerably underestimated and the percentage is not nearly so large as Statement X shows. In the Bhuder and Dahar Circles the percentage is also high. In the first named circle the lightness of the soil permits of a crop being matured with very little rain, while the other two circles are secure owing to the moistness and fertility of their soil. The percentage in the Dahar Khari Circle is probably the highest in the tabil while it is lowest in the insecure Chiknot Circle where the proportion of black chiknot is very large and in the greater part of the circle the soil is dependent entirely on the rainfall. The figures of the last ten years in this circle speak for themselves and constitute the chief justification for the separation of the Chiknot from the Dahar Khari Circle.

18. The following statement shows in percentages the average area of each important crop sown, matured or failed, on 100 acres of each class of land during the years selected for the produce estimate.—

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	'	Pulses		• •		35	1.76	3 01	2.08
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		Gojra and gochni	2 33		894	26	11 34	6 26	8-08
	,	Gram	_		9 87	05	10 13	986	8-29
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As pointed out in paragraph 15 the crops on the baranis of melvide these grown without irregation on the chahi and nahri soils, and there is not really the large are sof double cropping on the baranismisch the barres indicate.

The results for all and dahri are also vituated by the percentages being worked out on the all and dahri areas entered in the Area Statement which are very different from the final area of these soils given in paragraph 7.

The statement will be referred to in the succeeding paragraphs.

- The system of chain cultivation is very simple, wheat and barley are almost the only irrigated crop grown, the proportion of what Is any about one fifth. In the Blinder and Dab ir Mitha Circles, where the wells are sweet, a bitle cotton and to become also grown, and in all circles except Bright and Chil not a fauly large area of miscellureous crops is irrigated from temporary wells. In the Revari and Palval Assessment Reports I have described in detail the method of cultivating the principal chain crops, and I need not repeat the descript on here. Speaking generally the Meo is infer or both in indestry and to correct to the Abir and the Jut, and as these are the two most important factors in determining the quality of chain cultivation, the chain presence of these taked is in consequence inferior.
- 20 of the Palwai Acts amont Report. The system in the Palwai Acts amont Report. The system in the taball shreedly some report the taball only not coin this paragraph the respects in which the nahricularity on of this taball differs from that of Palwal. In the first place the soil, a atmosphy and character of the cultivators are all inferior to the eof Palwal. The eastern of arrighting nearly the whole nahri are a rimally and of excessive every general the nahri produce of this tabal. Again, while the principal coins from months among the proportions which they have to each other differs there is a larger proportion of rub, crops than in Palwal and barby takes the place of wheat act the chief rab ecreal, a certain amount of imaginal property and promote the chief rab ecreal, a certain amount of imaginal property and promote the chief and extensive discount the fall and to make require names of the latter diamal more labour than the fall and to make require names of the latter diamal more labour than the fall and processed of the fall of the process of population of the of artists a larger paragraph of the fall of the fall of the constant of population of the off artists a larger paragraph of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall of the fall
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22 The cultivation of the baiani soils differs considerably in the various circles. In the Bangai Circle the soil is generally too dry and in the

Bhuder Circle too light for the successful growth of unirrigated rabi crops, consequently in both these circles nearly the whole barani area is put under kharif crops consisting of jowar where the soil is Chiknot, bajra, jowar, and cotton where the soil is narmot, and magda and bajra only where the soil is blur In these two circles the proportion of unirrigated cotton is smaller than in the more fertile lands of the valley At the rabi, if the September rainfall is good, the best land which has been kept fallow is put under bejhai (barley and gram), while the remaining area which has already borne a crop of bajra or jowar and is strong enough to grow rabi crops is sown with "dofash" gram is of necessity small in the Bhuder Circle These remarks as to double cropping do not apply to the chiknot of these circles, as Chiknot unless moistened by flooding or percolation cannot be double cropped In the Dahar Mitha Circle, owing to the natural fertility of the soil, the area under nabi crops is larger and the proportion of wheat, bailey and mixtures to gram sown alone is much larger, similarly at the kharif the proportions of jowar and cotton to bajra are larger than in the two previously mentioned circles.

The Dahar Khari and Chiknot Circles are distinguished from the other circles by the large proportion of Chiknot in the soils. Statement X shows that in these circles there is normally a large preponderance of rabi over kharif crops, though owing to the recent dry rabis the areas under kharif and rabi crops during the years selected for the produce estimate are nearly equal

In the Dahar Khari Circle the cultivation resembles that of the Dahar Mitha Circle, but there is more cotton, wheat and gochni In the strong soil of the Chiknot circle the area under jowar is equal to that under bajra, while wheat and gochni are almost the only labi crops.

In the Palwal Assessment Report I have described the method of cultivating jowar, bajra, cotton, bejhar and gram on the various barani soils, and the system of cultivating these crops in this tahsil is the same, except that in the Dahar and Chiknot Circles jowar is not generally sown thickly to yield half grain and half fodder, but is sown sparsely for grain. Pulses are as usual grown with jowar and bajra, and til and hemp with cotton. The method of cultivating gother has been described in the preceding paragraph. On the harder soils eigenstance are always sown in lines, but in light moist magda and bhur, chiefly in the Bhuder and Dahar Circles, sarson is frequently grown alone in soil which has been well fertilized by cattle which are penned out during the rainy season. Owing to the scarcity of cattle there is very little manuring. In the case of ordinary barani land fallows take the place of manure, but the soil of the low-lying lands is so naturally fertile that it is able to stand without exhaustion a large amount of double cropping.

The following table compares the percentages of the chief staples at last settlement and now As already stated, the settlement figures are worked out from Form D while the present figures are arrived at by calculating the percentage which the matured area of each crop bears to the total matured area. It was impossible to make the calculation on sown areas, as though the total sown area is given in the crop statement the sown area of each crop is not available

The comparison is a very rough one because the settlement areas are the sown areas of the year of measurement, and are neither the figures of a series of years not even of one year, as the villages were measured in different years

Some of the results of the comparison are astonishing and show what serious errors were introduced into the produce estimate by mistakes of classification and by taking the figures of only one harvest. The area under cereals (especially kharif cereals) and cotton was much overestimated, as the miscellaneous crops (pulses, hemp, sesame and oilseeds) which are grown with them were not recorded at all, the whole area being shown as under the superior crop Similarly the large decrease of the area under cotton, which is due partly to the cause just explained, must have been due partly to the area being that of one harvest only, which happened to be exceptionally favourable to the cultivation of cotton. Owing to the lateness of the rains in recent years there probably has

heen some real decrease of enton in favour of bajes, but it has not been so large as the figures indicate. The someon underestimate of the area under feelder crops (guar-chari) is due to the fact that the area shown as under grain is that if you is so no along, which forms a very small project on of the total area under this crops—

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I proceed to discuss the companion circle by circle .-

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(5). Chiknot Circle—The same remarks apply with regard to cotton as in the Dahar Khan Circle Otherwise there seems to have been little change, and the large percentage of wheat at settlement as against gochni now is probably due to a misclassification.

The serious overestimate of the area under the more valuable crops at the expense of the less valuable, and the underestimate of the area under guar, the value of which was not included in the Produce Estimate, all tended to make Mr Channing's estimate of the value of the produce excessive.

# CHAPTER IV .- RENTS AND TENANCIES.

The following statement shows the percentages on total cultivation of the land hold by the owners themselves and by the various classes of tenants at settlement and now The figures are abstracted from Form B of Mr. Channing's Report and Statement XI of this Report —

										1	101	1.5
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Vircle			Cash 1	rcnie	Kınd	rents	Oash	rents	Kind	rents		
	Settlement	Now	Sottlement	Now	Settlement	Now	Settlement	Now	Sattlemont	Now	Settlement	Now
Bangar Bhuder Dahar Mitha Dahar Khan Chiknot	68 65 68 78	54 52 55	13 7 7	6			25 22 25 13 11	35 26	. 5	6 2 18 17	12	19
Total Tahail	70	59	8	}		E	22	25	ł	7	6	18

The decrease in the area cultivated by the owners themselves and the increase in the area held by non-occupancy tenants paying cash rents is due to the large area under mortgage. Batai is an increasingly popular form of rentespecially on the hard black clay soil of the Chiknot Circle, where the produce is very precarious and cash rents are almost unknown.

The area paying competitive cash rents is, as we should expect, much larger than at settlement, but owing to the pressure of population on the soil is not very large. The large percentage in the Dahai Mitha Circle is due to the whole of the large village of Doha being cash rented. Most of the rents in column 13 are unfortunately paid to mortgagees.

Statement XI shows the mode in which kind ients are paid. As the Rind rents are under batal is so small, the data are very meagre. Here, as in Palwal, the share of an irrigated chahi crop is one-third. From the statement it appears as if the share were one-half, but this is because most of the rents are of unirrigated crops grown on chahi land.

The landlord's share of an irrigated canal crop is, as in Palwal, one-half, but he pays half the cost of the seed and half the canal dues. In this tahsil no exception is made in the case of sugarcane, of which the share is also one-half, but here the landlord shares all the expenses of cultivation instead of only the expenses specified in paragraph 24 of the Palwal Report. The landlord's share of cane is therefore no higher than in Palwal. The share of all crops other than irrigated crops grown on chahi and nahri land is one-half, as in Palwal, and as in

this tabil at last settlement. It seems a high rate for all but the moist low-lying sock, but it is the precading rate on similar soils in other tabils of the district. Mr. O'Dayer resumed a rate of two fifths in Alwar, and this is certainly a fairer all-round rate, but to adopt it in this tabil would be opposed to the elegistic endence. A share of the stranger always taken of chabi, nahri and became only a like, but no lharch or seen are exacted.

Zaldı reats are unknown

The percentage of the total cultivated area which is cultivated by tenants paying at other than revenue rates (with or without realistic) region to the table in paragraph 24. At last sattlement, no attempt was made to frame each rent rate. Mr. Chaning wrote (Assessment Rep ort paragraph 26)...

"The vest impority of touants are connected with the cultivating proprietary brother-books and pay merely customary rates... In only a very few villages do the tenants pay rates at all representing the letting value of the land, they rates will be hereafter compared with the proposed assessments." In all circles, except the Bangar, the juna proposed was well above the jama at half-rent rates.

Mr Wilson in the Revision Report went into the subject of each rorts at considerable length (ride pumpraphs 54—56), and be appraised a statement (Appendix VIII) showing the me across of more or less competitive each rentrestlement for each circle and the whole tabed. I repreduce it less for facility of reference, analysis to handence of the rents given by Mr. Channing in his Assessment Report, which agrees with the meadence of Mr. Wilson's resist in all circles except the Bangar:—

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Mandikhera and Chiknot Circles, separate figures for ^Cthe present Dahar ard Chiknot Circles are not available

	1			2	: 		3			4	<b>1</b>			5 	
	Year			Incidence of Cash rents paid by tenants at-will not bein reyenue rents								EING	AT_		
				Ban	gar		Bhu	der		Dal	nr		Total	Tabs	31 <b>L</b>
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Rise per cent	since	settler	nent		<b>54</b>			24			86			80	

The percentage of increase is enormous, and in the Dahar Circle does not correspond to an equivalent increase in the value of land. There the cents have been forced up by rack-renting mortgagees and by the severe pressure of population on the soil. I proceed to put in the usual table abstracted from statements XIV and XV shewing the result of the attestation of competitive rents at village inspections.—

1	2	3	4	5	6	7	8	9
Circle	Detail	Chahı	Nahrı	Abı	Dahrı	Chiknot Narmot	Magda	Bhur
Baugar . { Bhuder { Dahar { Mutha } Dahar { Kharı } Chiknot {	Total rents Corrected Total rents Corrected Total rents Corrected Total rents Corrected Total rents Corrected Total rents	Rs a p 4 11 0 4 13 0 5 11 0 7 14 0 7 11 0 7 0 0 7 3 0 2 11 0 3 2 0	4 10 0 4 3 0		5 9 0 7 12 0 6 15 0 6 11 0	3 10 0 3 13 0 3 9 0 3 10 0 4 4 0 3 14 0	3 10 0 3 9 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Note.-Nahri includes chahi nahri,

There has not therefore been very much alteration in any circle except Dahar Mitha where the whole rents of the rack-rented village of Doha have been excluded

In the Bangar Circle there is very little difference in the rent of any soil except blur. The chahi and nahri are both inferior, and as a rule the same rent is taken on them as on loam. The prevailing rent rate on all soils, except blur, is Rs 2 per pakka bigha=Rs 3-5-0 per acre. In canal villages and in villages with a better class of barani soil Rs 3 per pakka bigha is often taken. On blur the rate is Re 1 on inferior and Re 1-8-0 on average land. In this circle most of the recorded rents are full fair rents, and the corrected rents adequately represent the letting value of the land.

In the Bhuder Circle the customary rates on bhur and loam are the same as in the Bangai Circle, and are fair for the soils, but the chahi is superior, and, as we should expect, a much higher chahi rent is taken. The customary chahi

rent veries from Rs 8 to Rs. 4 per pakka highe, and the corrected chahi rent adequately represents the letting value of chahi land in this circle. The dalari rent is the same as the chahi

On the fertile role of the D-har Circles much higher rents are taken than in the other two circles. In the Dahar Miths Circle the customary chain tent rate varies from Rold to Rold Rolds and everages nearly Rs. 5 per paken biguative rates from Rolds a light chain rate for the Mawat and testifies to the exclience of the chain of this circle. The dahri rate is as usual nearly the tame as the cloth, the value of these soils being considered equal by the romandors of this takel. The customary rate on loam is Rolds per paken bightates 4-12-6 per acre, which is the rate on all good ferfule form in this district (e.g., the Bangar Circle of Palwal). The corrected rents on this will give a much lower rate, because in the south of the circle under the western range of bills there is a strip of dry form which hes high and is out of the reach of flording: this form resembles the dry Bingar foam, and the same reat (Rs. 2 per paken bight is taken on it an unduly large proportion of the narmor rent-happin to be on the soil, and hence the everage narmor rent is much lower than it neight to be; it should be at least Rs. 4-6-0 per acre, which is the magda rate. The blur in this circle is moist and good, and the customary rent rate on blur in from Rolls-0 to Rs. 2-0-0 per paken bighs. In this circle, with the except on of the narmot rate, the corrected rents fairly represent the proper letting value of the land.

The east of the Dater Khari Circle is, as I have already so d, the best in the talest, and even including the blur is all very much of one quality—a most fertile soil almost, if not quite, equal to dater.

The well reserve soul, and as a ruly no higher real is taken an electification on form. The almost universal materials and all ends of the in Respective by glacelle 6:50 for acre. However, restricted Re. 5=Respectively, a real rest, and reals at the rate large beautiful d. The corrected real of dalm, abs, normal and mapping prespectively the contensity rate. The rest up about in third rightly by the higher restrictly the contensity of deather, while there is blue as shiplify have. If the tiers except on the next and process by at a rate in a rate, and the high rate indicates it, forther all there is a first of date, and the high rate indicates it, forther all there is a rate of the term of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction of the restriction o

In Alman and Blantene Me O'Derg ments in this enquery state as he empty, the see although which may are not the first may react the test in second terms of the following terms of the test in second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of the second terms of

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Allowing for possible differences of soil classification the ient rates in tabsil Ramgarh correspond very closely with those in the Dahar Mitha Circle. The bhur rates are lower, but Mr O'Dwyer reduced the lates as they stood to allow for years in which this soil was not cultivated. The attested rents on this soil ranged from Rs 1-11-0 to Rs 5, and the average rent rate was probably not lower than ours.

Tahsil Kama adjoins the Bangar Circle and though the chahi and dahring rates are much higher, the barani rates correspond with remarkable closeness the difference in the chahi and dahri is probably due to a difference of classification. Tahsil Pahari adjoins the Bangai and Bhuder Circles and Tahsil Gopalgarh the Bhuder Circle. The rates in Gopalgarh correspond with extraordinary closeness to those of the Bhuder Circle, but those of Pahari are very much higher, and resemble the rates in Dahar Mitha. From Mr. O'Dwyer's description on pages 9 and 10 of his Assessment Report of the northern tahsils of the Bhartpur state I gather that all these tahsils are physically superior to the Bangar and Bhuder Circles of the Firozpur tahsil, and the correspondence in the rents may therefore be accidental, being due in Kama and Gopalgarh to the absence, as stated by Mr. O'Dwyer, of competition

#### CHAPTER V —HALF-NET-ASSETS BASED ON BATAI

In the Rewari and Palwal tabsils the years selected for the produce estimate were the years 1898-99 to 1903-04, excluding the famine year of 1899-1900, but in this tabsil, where the rabi cropping is so important, these years are not representative owing to the series of bad rabis. With the approval of the Settlement Commissioner I have substituted the five years 1900-01 to 19004-05, which give a much better average. The following is a brief description of the harvests

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The character of the harvests may be summarised in the following

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Allowing for possible differences of soil classification the rent rates in tahsil Ramgarh correspond very closely with those in the Dahar Mitha Circle. The bhur rates are lower, but Mr O'Dwyer reduced the rates as they stood to allow for years in which this soil was not cultivated. The attested rents on this soil ranged from Rs 1-11-0 to Rs 5, and the average ient rate was probably not lower than ours.

Tahsil Kama adjoins the Bangar Circle and though the chahi and dahri rates are much higher, the baram rates correspond with remarkable closeness, the difference in the chahi and dahri is probably due to a difference of classification. Tahsil Pahari adjoins the Bangar and Bhuder Circles and Tahsil Gopalgarh the Bhuder Circle. The rates in Gopalgarh correspond with extraordinary closeness to those of the Bhuder Circle, but those of Pahari are very much higher, and resemble the rates in Dahar Mitha. From Mr. O'Dwyer's description on pages 9 and 10 of his Assessment Report of the northern tahsils of the Bhartpur state. I gather that all these tahsils are physically superior to the Bangar and Bhuder Circles of the Firozpur tahsil, and the correspondence in the rents may therefore be accidental, being due in Kama and Gopalgarh to the absence, as stated by Mr. O'Dwyer, of competition

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Rabi 1905—The heavy rain in September made extensive sowings possible, and very unusual rain in November led to a further extension of the area. Good rain was received at intervals, and the harvest promised to exceed the record both as regards quality and quantity, but severe and unprecedented frost at the end of January did great damage, from which the oil-seeds and early-sown barley never recovered. The other crops recovered after a good shower in March, and in this tabul, which owing to its hills is more sheltered from frost than any other, the harvest was a good one

The character of the harvests may be summarized in the following table --

	1				2		3
	Year	-			Kharıf		Rabi
1900 01	500		••		Very good		Very good
1901-02	•	••			Bad	.	Bad
1902-03				•	Good	ı	Below average
1903 04	•				Below average		Bad
1904-05			••		Good		Good

Referring to Statement X, it will be seen that these years give a result which is nearly average in the Bangar and Bhuder Circles, where the *kharif* is the chief crop, but which is 4, 5½ and 6 per cent below average in the other circles respectively, where the percentage of rabi crops is much larger, and the bad rabis have more than counterbalanced the good *kharifs*.

28. The recorded percentages of crops failed to the total area sown may be taken to be correct in all circles, except the Bangar, where, as in the Palwal Tahsil (vide Assessment Report, paragraph 27), the under-estimate of the failed area of irrigated and unirrigated crops in canal villages seriously affects the reliability of the cropping figures. I compare below the recorded percentages of failed crops in this circle with what I think it ought to be—

	1				2	3	
	·		Percentage ,				
Class	of crop				Recorded.	Real	
Irrigated from wells	***	•	• •		4	8	
" " Canal			•••		3	j' 15 .	
Unirrigated				٠	20	30	

The recorded percentage of failed chalic crops is less than in the Bhuder and Dahai Mitha Circles, where the water is much sweeter, and I do not think the correct percentage can really be less than 8. I took 10 per cent. as the correct percentage of failed nahri crops in the Palwal Tahsil. In this tahsil, where all the conditions make for inferiority, I do not think it can be less than 15 per

cent. Similarly, 20 per cent is much too low a percentage for the dry loam of this circle, and 30 per cent is a moderate estimate. The same remarks apply in regard to mixed crops as in the Palwal tahsil (vide Assessment Report, paragraph 27 (b)).

Statement XII gives the data on which the assumed yields are based.

In many cases the results of experiments are satisfactory, but in others they are not owing either to the abnormal nature of the harvests under observation or to the ineradicable tendency of subordinate officials to select the best fields.

I am not inclined to attach much value to any experiment which I have not myself inspected, and I have supplemented the information derived from experiments by constant enquiries from the people at village inspections. The yields assumed by Mr Channing at last settlement are entered in Statement XII for reference They seem to me in most cases rather too high.

I proceed to discuss the yield of each important crop separately, taking them in the order in which they are entered in Statement  $\lambda\Pi$  as there is very little difference in the yield of chiknot, narmot and magda, I have classed these soils together under the name of barani

This crop is well suited to the soil of all circles except Bhuder. It grows especially well in the rich clay soil of the centre of the valley. In inferior or sandy soil it is sown rather thick and grown half for grain and half for fodder, and this custom must be borne in mind in considering the yield in the various circles. Unfortunately experiments give very little help in determining the yield. Excessive September rainfall seriously reduced the yield of grain both in 1904 and 1906, and in 1905 owing to the total failure of the rains there was no crop at all. In estimating the yield of this crop therefore I am dependent entirely on enquiries from zamindars and officials, and on experiments conducted in neighbouring tracts.

Jowar is grown to such a very small extent on irrigated chahi and nahri lands, on dahri and on bhur, that the assumed yields on these soils are of very little importance, and do not require discussion. On barani land in the Bangar Circle I have adopted a yield of 200 sers, this is the same as the yield assumed for the Bangar Circle of the Palwal Tahsil, it is a lower yield than I have adopted in the Dahar Circles because cancil irrigation by saturating the subsoil affects the yield of jowar, and as the soil is inferior, the crop is sown rather thick and yields less grain. In the Bhuder Circle the loam is light, and I have adopted the same yield as in the Bangar Circle. In the Dahar Mitha Circle I have assumed 260 sers, as the soil is of better quality, and in the Dahar Khari Circle, where the barani soil is a rich loam or clay, and a really heavy yield is obtained—280 sers. In the Chiknot Circle I have assumed 240 sers. Mr Channing took 320 sers in all circles except Bhuder, but I do not think such a high estimate is justified, and it is certainly never admitted to be an average yield by the zamindars. Jowar is a delicate crop and its hability to suffer from the effects of drought in bad years and of excessive rain in good years makes moderation in fixing the yield essential

This is the chief crop of the year, and it is most important to determine its yield accurately. In this tabulation to the parts of the district a number of reliable experiments have been performed.

The average yield of unmanured bajra is about 200 sers on all light barani soils, except inferior blur. I have assumed a yield of 160 sers on barani and 140 sers on blur in the Bangar and Bhuder Circles, where the loam and blur are both inferior.

In the Dahar Circles, where the best bajra grows, I have assumed 220 and 240 sers, respectively, on barani and 200 sers on bhur Bajra does not do well in a stiff clay soil, and in the Chiknot Circle I have assumed 160 sers on barani, which is the same as the bhur yield in that circle.

For the irrigated soils and for abi and dahri I have taken slighter higher yields than on barani

Mr Channing took 240 sets in all circles except Chiknot, where he took 160 sets. His experiments only gave an average of 200 sets, but the season in which they were performed was unfavourable on account of excessive rain, and he consequently went above the result of his experiments. In the Bangar and Bhuder Circles, especially Bhuder, the estimate seems much too high for unmanufed bana.

The area under this crop is very small, and no experiment has ever been performed. I assume 320 sers as the irrigated and 240 as the barani yield in all circles where maize is grown for bhur I assume 200 sers.

The area under pulses other than guar, which is grown exclusively for fodder, and for which no yield is assumed, is very small. Urd is grown with jowar and mung, and moth with bajra. In the Bangar, Bhuder and Chiknot Circles I have taken the same yields for these pulses as in the Bangar Circle of Palwal, while in the Dahar Circles I have taken 40 sers more. Chaula is grown either with bajra or in very inferior bhur alone. It is of importance only in the Bhuder Circle. In the Bangar, Bhuder and Chiknot Circles I have taken the same yield as in Palwal, and in the other two circles 40 sers more. These estimates are low as compared with Mr. Channing's, but moderation is essential in view of the method of cultivating and of recording these mixed crops.

Til is generally grown with cotton or jowai, but it is also sometimes grown alone. Experiments in the Dahar Mitha Circle indicate a yield of 180 sers; but as it is generally grown as a mixed crop, I think a low yield should be assumed, and I propose 140 sers on all soils and in all circles, this is the same yield as I assumed in the Bangar Circle of Palwal

No experiment has ever been performed in this tabsil, but in the Bangar Circle of Palwal experiments indicate an average yield of 936 sers for irrigated cane, and in that tabsil Lassumed a yield of 840 sers. In this tabsil the cultivation of cane is very inferior, and I do not think it would be safe to assume a higher yield than 640 sers, which is the higest yield ever admitted by the zamindars.

Cotton, 8 per cent cultivators to the Jats, the yield of cotton in this tahsil is, other things being equal, inferior to that of the Palwal tahsil In the Bangar Circle the soil and cultivation are both inferior to those of Palwal for barani cotton in this circle I assume a yield of 160 sers, or 40 sers less than in Palwal in this circle I do not think there is any difference between the yield of canal il rigated and barani cotton, and I assume the same yield this assumption is justified by the result of experiments which give an average yield of only 184 sers for canal cotton. For the inferior blur of this circle I assume a yield of 100 sers, only. In the Bhuder Circle I adopt the same yields on barani and bhur as in the Bangar Circle.

The best cotton grows in the low-lying, fertile lands of the valley. In the Dahar Mitha Circle I assume 200 sers for barani and 120 sers for bluid both these estimates are justified by experiments and are exactly the same as I made in the Bangar Circle of Palwal, which, as regards produce, this circle closely resembles. The yield of cotton in the Dahar Khari Circle is superior to that of the Dahar Mitha Circle, and I assume 20 sers more on barani than in that circle for blur I take the same yield. The yield of cotton is very poor in the stiff clay of the Chiknot Circle, and I assume 140 sers only, which is less than in any other circle. For the blur of this circle I assume 100 sers, as in Bangar and Bhuder.

I have generally taken the same yields on chahi and flooded land, and the yield on these soils is in nearly all circles assumed to be 40 sers more than the barani yield. Mr. Channing made no distinction between irrigated and unirrigated cotton. He took 200 sers in the Landoha and Mandikhera Circles, 160 sers in the Chiknot and Bangar Circles, and 140 sers in the Bhuder Circle. These seem to me very fair estimates, and they agree closely with the yields which I have now assumed.

The dry soil of the Bangar Circle is not suited to wheat is somewhat difficult to estimate the average yield of chahi wheat in this circle, In the east of the circle the because the quality of the chahi varies greatly wells are nearly all salt, and irrigation is very inferior, while under the hills on the west the soil is better, and benefits by drainage water from the hills chahi of the villages lying in the bed of the Lohinga drainage canal is especially I assume a chahi yield of 400 sers, which is 80 sers less than the assumed yield in the Palwal Bangar, where the chahi is much superior Mr Channing took 520 sers, but this seems too high an estimate for the inferior chahi of this The yield of canal wheat is very inferior, and I assume a yield of 320 Experiments only indicate a yield of 300 sers, but the years in which the experiments were made were both below average The assumed yield is 20 per cent. below that assumed in Palwal, and seems a sufficiently moderate estimate The dahrı of this circle is inferior, and I assume a yield of 360 sers only baranı and bhur I assume 240 and 200 sers respectively.

In the Bhuder Circle the chahi and dahri are both better than in the Bangar Circle, and I assume 80 sers more for the chahi and 40 sers more for the dahri. For barani and bhur I take the same yields

The chali wheat of the Dahar Mitha Circle is the best in the tahsil, and Mi Channing assumed the very high yield of 600 sers. I think this was a slight over-estimate. I assume 560. An experiment conducted this rabi (1907) yielded only 409 sers per acre, but the produce was severely damaged by rust and by dry hot winds which blew in the first week of April. In this circle the yield of dahri is very good, and I assume 440 sers, the dahri experiment conducted this harvest was below average for the same reason as the chahi experiment. For barani and bhur I assume 280 and 200 sers, respectively

In the Dahar Khari Circle the chahi is good, though as the water is salt, it is inferior to that of the Dahar Mitha Gircle, and I assume 40 sers less than in that circle. The dahri is also inferior to that of the Dahar Mitha Circle, and so I assume a lower dahri yield, while the yield of barani wheat is better than anywhere else in the tahsil, as the strong moist clay soil is especially suited to wheat for barani I assume 320 sers and for blur 240 sers

In the Chiknot Circle the chahi is very inferior, and I have assumed a very low chahi yield (320 sers). For abi and dahri I assume 360 sers, for barani and bhur 280 and 200 sers respectively. The barani yield may seem high, but wheat is the crop best suited to the black chiknot of this circle, and either alone or in the form of godhn is almost the only barani rabi crop grown

After bajra this is the most important crop of the year. As an irrigated crop it is almost always grown alone, while as an unirrigated crop it is, except on inferior bhur, generally grown in the form of bejhar Experiments are again of very little use, and in estimating the various yields I have been guided chiefly by enquiry and observation. Where the soil is dry or light, as in the Bangar and Bhuder Circles, the yield of barley is considerably higher than that of wheat, while in the moist, low-lying soils of the valley, which are especially suited to wheat, there is much less difference between the yields of the two crops

For the chahi yield I have taken 480 sers in the Bangar Circle, 600 sers in the Bhuder, 640 sers in the Dahar Khani Circle and 680 sers in the Dahar Mitha Circle In the Chiknot Circle I have taken 400 sers only. For the nahri yield I have taken 400 sers, which is 80 sers less than in Palwal, experiments indicate a much higher yield of canal barley, but the crops of both the years

under experiment were much above average. For the abi and dahri yields I have taken 40 sers nore than the wheat yield in the Bangar, Bhuder and Dahar Mitha Circles, 80 sers more in the Dahar Khari Circle, and the same as the wheat yield in the Chiknot Circle. For the barani yield I have taken 280 sers in the Bangar, Bhuder and Chiknot Circles, 860 in the Dahar Mitha Circle, and 400 in the Dahar Khari Circle. For bhur I have taken 240 sers in all circles except Dahar Khari, where I have assumed 280 sers.

Gram, 13 per cent - Except in the Bangar Circle, gram is chiefly grown in the form of bejhar In the Bangar Circle it is generally grown alone as a second crop after bajia, but the yield of "dofasli" gram does not seem to be much less than when it is grown in fallow land, as it is only grown as a second crop in seasons which are above the average. The fact that the crop statistics do not distinguish between beihar and gram grown alone, or between gram grown in fallow land and "dofash" gram makes it somewhat difficult to estimate the yield. It is very heavy in the moist low-lying lands of the valley, but is not so good in the Bangar, Bhuder and Chiknot Circles In the Bangar and Bhuder Circles, I assume a baiani yield of 280 sers, in the Dahar Mitha Circle 360 sers, in the Dahar Kharı Cırcle 400 sers, and in the Chiknot Circle, where the soil is not suited to gram, 240 sers. In the inferior bhur of the Bangar, Bhuder and Chiknot Circles I assume 200 sers, and in the good bhur of the two Dahar In all circles I have assumed about 40 sers more on chahi, abi Circles 240 sers and dahri than on barani. There is a small area of canal irrigated gram, but the yield of this is very inferior, and I assume only 280 sers, or the same as the baranı yıeld.

Gojra and Gochni, 5 per cent.—The yield of gojra is assumed to be half the combined yields of wheat and barley. On dahri and barani land wheat is almost invariably sown in the form of gochni, for gochni yields intermediate between those of wheat and gram have been assumed, but approximating nearer to the wheat yield as the proportion of wheat is larger than that of gram.

Rabi oil-seeds, 4 per cent.—Saison and taramina are the only oil-seeds grown. I assume the same yields for both. On chahi, nahri and dahri I assume 200 sers and on barani and bhur 160 sers in all circles. The barani yields are supported by the results of a number of experiments, which indicate a yield of 180 sers in all circles and on all soils. A good field of these crops will yield 240 sers, but they—especially saison—are delicate and precarious crops, liable to suffer from the effects of drought, frost, and excessive rain, and a full yield is very raiely obtained. I do not think it would be safe to go above the assumed yields, which are the same as I adopted; in Palwal.

Others, 11 per cent —It is impossible to assume yields for the miscellaneous crops grown at both harvests, and to these and to the fodder crops I have assigned cash values

For purposes of comparison I append, below, in sers per acie, the yields of the principal crops assumed by Mr. O'Dwyei in the Ramgarh tabul of the Alwar State, which adjoins and resembles the Dahar Mitha Circle of this tabul, and the three adjoining tabuls of Bhartpur

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
_	Rangarh (Alwar)		Gopalgarh (Bhartpur)			PAHARI (BHARTPUR)			KAMA (BHARTPUR)						
Сгоря	Chahi	Dahrı	Вагап	Chahi	Dahrı	Baranı	Bhur	Сьавз	Dahrı	Baranı,	Bhur	Chabı	Dռbrı	Baran	Bhur.
Jowar Rajra Cotton Pulses Wheat Barloy Gram Mixtures	640 512 320 608 978 384 736	384 272 320 528 640 336	256 150 208 256 384 256	500 400 250 800 900 700	400 300 250 600 700 700	300 300 250 400 400 400	250 300 150 400 400	500 400 250 700 700 700	250 600 700 700	300 250 250 400 400	250 250 150 400 400	500 400 750 850	300 250 250 600 700	300 250 250 400 450	250 150  400

Comparing first the yields of the Ramgarh tahsil and of the Dahar Mitha Circle it will be seen that there are considerable differences between these yields and those which I have assumed The yields of jowar, bajra and pulses assumed by Mr O'Dwyer are higher than mine and agree with Mi Channing's. I cannot however help thinking that for unmanured jowar and bajra my yeilds are not too low Of the remaining barani yields Mr O'Dwyer's estimates for wheat, bailey and mixtures are about the same as mine, while those for cotton and gram are The chief difference however lies in the chahi and dahri yields, which are in the case of barley enormously high as compared with mine The dahri of Ramgarh is no doubt superior owing to the action of the Atria Bund, which ensures more regular flooding in Alwar, but I cannot believe that 24 mainds is an average chahi barley yield for Meo cultivators. The Bhartpur yields are enormously high all round as compared with those of Gurgaon, and the soil must be remarkably good to produce crops giving such a high average yield. The cotton, wheat and gram yields are almost incredible. With all due deference to such an authority as Mr O'Dwyer I cannot help thinking that the Bhartpur and Alwar yields are too high, and it is a significant fact that in every case the net assets based on kind-rents largely exceeded the estimate based on cash-rents.

At the same time it must be admitted that the standard of Meo cultivation is much higher in Alwar and Bhartpur than in Gurgaon. The high assessment, the solidarity of the village communities, and the absence of demoralizing influences, such as facilities for mortgaging and borrowing, combine to make the Meo a much more industrious cultivator in a Native State than in British India

As a share of the straw is always taken when the rent is batai, I have included the value of the straw in the Produce Estimate I have assumed the following cash-rates per maind for the straw.—

The outturn of straw is assumed to be equal to the outturn of grain in the case of all crops except jower, bajra and wheat the outturn of jower is assumed to be three times, of bajra twice and of wheat one-and-a-quarter times that of the grain.

The sanctioned prices of the present settlement are given below in annas per maind and compared with those assumed at last settlement —

on good and has sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the sound in the so												
1	2	3	4	5	6	7	8	9	10	11	12	13
	Jowar	Bajra	Mang	Moth	Til	Cane	Cotton	Wheat.	Barloy	Gram	Sarson	Taramıra.
Prices at last settlement Prices sanctioned now Rise per cent	16 20 25	18 23 28	18 30 67	15 22 47	40 60 50	45	53 64 21	21 32 52	14½ 22 52	16 23 44	27 45 67	17 32 68
Assumed by Mr O'Dwyer for tabsil Ramgarh Assumed by Mr O'Dwyer for Nothern tabsils, Bhartpur State	21	26	[	6 6	58		58	32 30	23 34	24 21	1	.3 .6

Mr Channing's assumed pinces were the average harvest prices of the twenty years 1854-1873, while those sanctioned now are based chiefly on the harvest prices of the last ten years extracted from banias' books, excluding years of scarcity, in both cases therefore they are the prices at which the zamindar actually disposed of his produce. The prices now sanctioned are for the whole district. The prices current in each tahsil are given in Statements III and IV of Mr Hamilton's report.

Mr. Channing's prices were on the whole lower in Firozpur than in any other part of the district, and we should have expected the present prices to be ower than in the other tahsils which are much better off as regards communica-

tions. As remarked however by Mr. Hamilton we can only accept the fact that they are not. That the assumed prices are not too high is, I think, indicated by the comparison with Mi. O'Dwyer's prices, which are equal to, or higher than, our prices in the case of all important crops except cotton

The reason of the low pince of cotton is not explained, and the Gurgaon price of this staple is fully justified by the data given in Statement III of the Preliminary Report on prices.

The all-round rise in prices according to the method employed by Mr. Hamilton in the Pieliminary Report, which is in effect the same as that described in paragraph 376 of the Settlement Manual, is 39 per cent, or higher than anywhere else in the district

Wheat, cotton, oilseeds, and in the Bangar Circle cane, are the chief revenue-paying crops, and they only occupy about 17 per cent of the total area under crops. In this tabil, where the Meos are thriftless and improvident, and are in the habit of speculating with their produce, where the pressure of population on the soil is severe, and where more than four-fifths of the crops are food crops, which in years of scarcity have to be bought from the bania at famine prices, the effective rise of prices cannot be very large, although as pointed out in previous reports the question of the effective rise of prices is not of much importance in this district where the assessment is based on each rents.

31. I propose to deal with fodder crops as in the Palwal Tahsil (Assessment Report, paragraph 30). Here also the kind rent data are so meagre that it is impossible to say what crops or portions of crops would, if batai rents were general, be appropriated by tenants before division. I propose therefore, as in Palwal, to make no deduction of any kind from the landlord's share, but in estimating the value of the Government share to deduct those crops or portions of crops which are consumed for fodder and form part of the cost of production.

The whole value of guar, chari, carrots and turnips, which are fodder crops pure and simple, as well as of all miscellaneous crops classed as fodder, will be deducted. The straw which I have taken into account in framing my Gross Produce Estimate is nearly always consumed for fodder, and its value will therefore not be included in the Government share the above constitute the fodder supply proper, in years of scarcity, when the ordinary fodder crops prove insufficient, they are supplemented by portions of the food crops. In this tahsil, where grazing is so scarce, the extent to which grain crops have to be cut for fodder is considerable. Orlseeds and pulses are the crops most largely sacrificed, but a certain amount of jowar, barley and gram is also cut

I estimate the percentages as follows --

1	<u>.</u>				
1	2	3	4	5	6
	Bangar	Bhuder	Dahar Mitha	Dahar Khari	Chiknot
Sarson , Pulses Jowar Bailey , ,	50 331 121 5	50 33 ¹ / ₃ 15 5 5	50 33½ 12½ 5 5	50 93 <del>1</del> 15 10 10	50 53 ¹ 15 10 10

In the Bhuder Circle the soil is light and in the Dahar Khari and Chiknot Circles grazing is exceptionally scarce, hence the jowar deduction is larger in these circles than in the others. Owing to the scarcity of grazing I have also made a larger barley and gram deduction in the two last named circles. These deductions compare with the following deductions made by Mr. O'Dwyer in the Ramgarh tabsil of Alwar —

,					Per cent
Rabi oilseeds, moth and masina			,	•	25
Roots .	••				50
Jowar		•			10
Barley		•	•		5

In Alwar sarson and tara were not recorded separately. Tara is never cut for fodder, and a deduction of 25 per cent from the total area under *abi orliseeds is equivalent to my 50 per cent deduction from sarson. The other deductions agree fairly closely. My gram deduction is supported by the testimony of the zamindars, who say that gram and barley are cut equally for fodder.

In this tabsil, where the reuts are in kind, the menials are invariably paid by the tenants. Whether this would be the case if kind rents were the rule instead of the exception is doubtful, but it was the case at last settlement in all the tabsils with good soil, and as it is the case now no deduction can properly be made from the Produce Estimate on account of menials' dues. In view however of the fact that more than half the land is cultivated by self-cultivating owners, who have to pay kamins' dues, allowance must be made in assessing

The only agricultural kamins are the klati (carpenter), lohai (black-smith), and chumar (leather-worker), the last of whom helps to some extent in the field. As it is not proposed to make any deduction on their account from the Produce Estimate it is unnecessary to state their dues in detail, but the percentages of the produce of each harvest which they absorb are as follows—

1	2	3
Cirole	Kharıf	Raı
Bangar Bhuder Dahar Mitha Dahai Khari Cluknot Total Tabail	4 4 4 3 1 3 1 3 1 3 5	1 4 1 7 1 2 1 3 1 9 1 5

The Meo generally has a large family, and is much too poor to employ hired labour. The only agricultural operations which are performed by hired labourers are the picking of cotton, the hoeing of sugarcane, and the making of gur

Cotton-pickers receive one-tenth of the pickings The cost of making gur is, as given in paragraph 20 of the Palwal Assessment Report, Rs 7-12-0 per acie, and the same share of the cost of noeing may be allowed as in Palwal, viz, Rs 3 per acre With these exceptions the ordinary Meo zamindar never employs hired labour, and no allowance need be made on this account

33 In tabul Rewari I made a deduction from the landlord's share of chahi produce on account of annual repairs to the woodwork and the occasional cleaning of wells. In this tabul this expenditure falls on the tenant, and no deduction is therefore legitimate

34 The landlord's share of the produce on the various classes of soil was stated in paragraph 24, and is shewn in percentages in the following table —

As in the case of chahi and unirrigated crops, no further deductions have to be mide, the Government share is half that of the landlord's. On nahri land the landlord pays half the cost of the seed and half the canal dues, and in the case of cotton he shares the cost of the picking, and in the case of cane the cost of cultivation, which is per acre as follows.—

		$\mathbf{R}\mathbf{s}$	8
Cost of seed	•	8	0
Share of cost of hoeing	••	3	0
Hire of press (including oil)	•••	6	4
Pay and food of jhoka and tarns who	prepare the gur	7	12
	Total ,	26	0

To avoid unduly complicating the Produce Estimate I have worked out separately the value per acre of the Government share of each nahri crop, and to obtain the total value of the Government share it is only necessary to multiply the area by the value per acre. These rates per acre are obtained by working out the value of a matured acre of each crop (less fodder allowance, vide paragraph 31) at the yields assumed in paragraph 29 and the sanctioned prices given in paragraph 30. After deducting the value of the seed sown, the canal dues and the expenditure mentioned in paragraph 32, the Government share is one-fourth of the remainder.

The gross produce and half-net-asset estimates are worked out in detail in Statement XIII.

Before abstracting the results here it is necessary to make allowance in the Bangar Circle for the serious underestimate of kharaba alluded to in paragraph 28. In that paragraph I compared the recorded percentages of failed crops with what I considered they ought to be

I propose to deduct 4 per cent from the chahi, 12 per cent from the nahri and 10 per cent from the unirrigated crops on account of insufficient kharaba. The resulting Jamas and rates are shown below —

				- <u></u>						
1	2	3	4	5	6	7	8	9	10	11
Girelo	Dotail	Chabı irrigatıov	Nahri ırrıgation	Abi	Dabri	Barani	Total	Value of 4th gross produce	Present assessment	Increase per cent, of column 8 on column 10,
Ваколв.	Matared ares in acres Value of gress produce Half net assets	2,522 46,748 6,614	1,26,607		257 8,468 675	4,64,094	6,41,112	1	79,661	40
Ħ	Rate per acre	2-10-0	<b>'</b>	ŀ	2 10-0	{	1	1 1	70,001	20
<b>'</b>	Matured area in acres	2,448	<b> </b>	<b>3</b> 44	·		Í——	ĺ		
	Value of gross produce	56,556	ł	568	ł	,	8,06,719	{		ļ
Внорав.	Halfnotassets	8,058		118	1	1		{	44,420	25
Вн	  Rato per acre	3-5-0		2-9-0	2-14-0	[	· ·	1		-5
	Matured area in acres	1,755		·	1,570	19,675	23,000	ļ		
frra.	Value of gross produce	44,535			25,788	2,15,802	2,85,625			
AR A	Half net assets .	6,308			5,476	41,795	53,579	47,604	47,276	13
DAUAR MITUA	Rato por acro	3-9 0			8 8-0	2-2-0	250			
	Matured area in acres	873		849	88	17,238	18,493			,
Вапля Кили	Value of gross produce .	21,086		5,704	478	2,22,544	2,49,812			
ТАВ	Half not assets	2,860		1,160	97	42,658	46,775	41,635	37,411	25
DAI	Rate per nere	840		3 5-0	2 15 0	280	2-8 0			
	Matared area in acres	58	,	193	128	7,834	7,713			
<b>GHIK 40T</b>	Value of gross produce	970		8,428	2,000	79,964	86,362		.	•
Qitti	Half not assots	185		765	408	14,892	16,188	14,394	14,151	14
	Rato per aoro	2 5		4-0-0	3-2 0	2-0-0	220	Ì	\$	
SIL	Matured area in acres	7,656	8,437	586	2,597	1,32,565	1,51,841			
T.A.B	Value of gross produce	1,69,890	1,26,807	9,700	985,04	12,22,667	15,69,630	}	.,	••
Total Tansil	Ualf net assets	23,970	14,594	2,041	8,410	2,34 754	2,93,778	2,61,605	2,22,919	27
5	Rate per acre	350	1 12 0	380	3-1-0	1-12 0	1-14 0			
==				<del></del>	<del></del>	<del></del>				====

It will be observed that in all circles the half-net-assets are considerably higher than the value of one-sixth of the gross produce. This is due to the high rate of batan of unirrigated crops. As I pointed out in paragraph 24, there can, I think, be little doubt that a rate of one half is too high for all except the best barani land, and the proper rate hes between one-half and one-third, and should probably be two-fifths, as taken by Mr O'Dwyer in Alwan

In the Dahar Mitha Circle the estimate seems unduly low, and this is due probably to the fact that the cropping is unrepresentative. There ought to be a much larger area under dahri crops (vide paragraph 22), and the chahi cropping is somewhat below the average (vide comparative statement in paragraph 8). In this circle also the yields may perhaps have been somewhat underestimated

In the Dahar Khari Circle the chahi cropping is, as noted in paragraph 8, considerably above average, but the dahri cropping is much below average, and the total result is probably a correct estimate

## CHAPIER VI -HALF-NEI'-ASSETS BASED ON CASH RENTS.

The results of the examination of cash rents have been described in paragraph 26 It only remains to Deductions and half net-assets rates decide what share of the corrected rents may be taken as equivalent to half the net assets In the Palwal Assessment Report (paragraph 34) I pointed out that in using cash rents we can either take the average realisations of a term of years (if available), or the rent demand of a single year, and that if we took the former we should find that we had to make an allowance for the expenses of management, while if we took the latter, we should have to allow for non-realisations, for land which goes out of cultivation or is not let regularly every year, and for fluctuations in the rent rate. In this tabul unfortunately there are very few villages owned by non-cultivating owners who take cash rents, and we are therefore unable to take average realisations as the basis of our cash ient net assets, and have to fall back on the cash rent demand of the year of measurement. The rates given by these rents after correction are detailed in paragraph 26, and we have to consider what deduction must be made from them on account of non-realisations &c. In the Rewart tabsil I made a deduction of 5 per cent on this account and in the Palwal tabsil of 12 per cent, but the Meo is a very different tenant from the Ahir or Jat, and I do not think there can be any doubt that in this tabul the percentage of unrealised ients is much larger than in Rewari or Palwal. It varies of course with the pitch of the rents and with the security of the cultivation I think a deduction of 15 per cent ought to be made in the Baugar, Dahar Mitha and Chiknot Circles, of 10 per cent in the Bhuder Circle, where the soil requires very little rain to mature a moderate crop, and of 30 per cent in the Dahar Khari Chrole. In the last circle ients are so high that I am convinced that they cannot be realised at all fully over a series of These percentages are below what is indicated by the very meagin evidence as to realisations which is obtainable In the Dahai Mitha circle the whole of the village of Doha is cash rented the percentage of realisations during the ten years 1896-97 to 1905-06 is only 71, but the tenants are the dispossessed proprietors, who have always been at feud with the owner by purchase, and further, in 1900-01 the rents, which were already high, were raised to a pitch which justifies their being characterized as rack rents. During the four years previous to 1900-01 realisations averaged 80 per cent of the demand, and as these years were below average, I have assumed that over a series of years 85 per cent of the demand would be realised In the Dahai Khari Circle a Meo owns nearly the whole of two villages and half of The average demand of his rents in these three villages during the last ten years amounts to Rs 1,494 while realisations only average Rs 989, or 66 per centof the demand the owner however is careless, the villages are not well managed, and the percentage of non-realisations must be above the average, though, with the very high rents taken in this circle, it is no doubt large, and my estimate of 30 per cent is probably moderate

Beyond the deduction of these percentages the rates as they stand require no alteration except in the Dahai Mitha and Chiknot Circles In the former I propose to take the Magda late (Rs 4-6-0) as the average barani rate for the reasons given in the paragraph 26

In the Chikmot Circle there are so few rents that a reliable cash rent estimate cannot be framed. The rents are only on chahi and barani, and in the former case the rent is too low and in the latter case too high, as it is on the best land. To obtain an estimate the best we can do is to apply the customary rate (Rs. 2 per bigha pakka, vide paragraph 26) to the cultivated area. This rate is too low for chahi, abi and dahri, but this is counterbalanced by the fact that it is too high for bhur, and it is on the whole a fair all round rate for the circle.

After making the above alterations, and deducting the percentages for non-realisations the half-net-asset rates and jamas are as follows —

1		2		1	<del></del>	8			4	Ī		5	Ī		G	Ī		7			3	1	9		Ī	10	)	11
Circle	·	)etail				Сьвы			Nabri			Ab.		,	Dahri			Barani		Rhut			Total cultivated			Present assessment		Increase per cent.
			·		Į.	8. )	1		B	- {	Rs	о.	p	Rs	a I	1			1			1				9 6.	р	
<u> </u>	Rate	***			1		В			G		•		*	 75			9 5,94		) 1	2 6 4.147	-		5 207				
BANGAB.	Area			Rs		5,69 10,13	- 1		19,0 19,0	- 1					,	1		4,42			3,240	1			ŀ	79.	661	84
	Amount				2	9		_		-	2	12	-	3	8	히-					<u>.</u> 4 0	۱_	5		-			
RR	Rato	•			1	4,8	- 1				_	-	82		94	1		0,59	1		3,400	1		824				
Bnudre	Area Amount	`	••			Re 12,3			••			Rв			Rs 2,85	-		Rs 17,21	- [	I	},600	•	$\mathbf{R}$	8 719		44,	420	16
*****	Rate			•	Rs 8	a. 4	p G		•••			,		Rв 2	a 1 15	0	}e. 1	8 J 13	9 R	s 1	n, p	R	s a	, p	֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝			
DARIAR	Area					4,4 Rs.			••						4,86 Rs	4		12,53 Rs	1		4,118 Re		25 R	,499 8		R	, J	
#7 #	Amount				_	14,7		_			_				12,81	9		23,30	Ю		1,242			,097	<u>'</u>	47,	276	17
	Rato				Rs 2		P O				Re 2		р 0	Rs 2	n, ; 5	p I	Rs. 2	a :	p R	ls 1 1	a p .5 (	R	S (	) (				
Danat	Area	•	٠	•		1,7 Rs	62					Rs	614 _B		8'. Rs.	75	:	15,61 Rs.	17		8,029 R		20 R	,897 8	7	R	9	i
	Amount				_ _	4,4	05	_			נו	1,	843	_	2,0	24		85,18	38		8,931	_	46	,84	<u> </u>	37,	411	25
Ę	Rato	••																				R	9 E	i G (				
TOXXUD	Arca						52	3					861		1	52		10,1	32		886	3	11 F	,038	3	R	El.	
č	Amount	i 44																					15	,170			,151	7

* Included in barani

The abi and dalni areas in all circles are not the areas in Statement II but the areas as finally fixed (vide paragraph 7), and the baráni area has been modified accordingly.

It remains to compare the cash rent estimates with those based on kind rents and detailed in the preceding paragraph. In the Bangar and Bhuder Cheles the half net-assets by cash rents are lower than those based on kind rents, and in the Dahai Mitha Chele they probably would be lower if the produce estimate were reliable which, as I have already pointed out, I do not think it is The reason seems to be that in these three cheles the rent rate of one-half is too high, and the one-sixth-gross-produce estimate which in the two first named cheles agrees very closely with the cash rent estimate is more reliable. In the Dahar Khari Chele the two-half net assets estimates agree almost exactly, and this is what we should expect as a batar rate of one-half is not too high for the fertile semi-dahar soil of this chele. In these four circles the cash rent estimate may, I think, be accepted with confidence as the true half-net-assets, as where the kind rent estimate differs from it, it is due to the causes which I have just enumerated.

In the Chiknot Circle we must, on the other hand, make kind rents our principal guide, and here again the one-sixth-gross-produce-estimate is much more reliable than the half-net-assets based on batai as a batai rate of one-half is obviously much too high for the extremely precarious soil of this circle. Though the cash rent estimates is little better than a guess, it may be noted that it agrees almost exactly with the one-sixth-gross-produce-estimate if we raise the latter by 6 per cent, which is the extent to which the produce of the selected years is below the average of the last 21 years (vide Statement X).

Expressed in round numbers the following sums are what I take to be the true half-net-assets in each circle.—

						$\mathbf{ar{R}}\mathbf{s}$
Bangar	•		•			1,07,000
Bhuder						52,000
Dabar Mitha		• •	•			55,000
" Khari		•	••	•••	***	47,000
Chiknot	•	• •		•••	***	15,200

# PART II.-FISCAL AND MISCELLANEOUS.

#### CHAPTER I.—FISCAL HISTORY

36. Of the 244 villages of this tabul 194 belonging to the parganas of
First Regular Settlement
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The net average collections of the last 20 years of the jagirdar's management amounted to Rs 2,25,700 out of an average demand of Rs 2,45,700. The parganas were summarily settled between 1835 and 1837 by Mr C. Gubbins for Rs. 2,25,591, and in the following year the first Regular Settlement was concluded by that officer's brother, Mr M. Gubbins Reductions on the Summary Settlement jamas were allowed at once, while the enhancements took effect from the expiry of the terms fixed at the Summary Settlement The assessments were as follows.—

1	2
Jama of 1246 faslı (first year of Revised	Final jama attained in 1256
Settlement)	fash
Rs	Rs
2,22,218	2,88,264

In 1841 Mr Gubbins reported that his assessment was too severe, and in accordance with his representations it was reduced to Rs 1,84,908. Twelve villages were subsequently added to the tahsil from pargana Nuh and 12 from pargana Hathin, Their assessment, Rs 18,176, raised the total assessment of the tahsil as then constituted to Rs 2,03,084.

The first Regular Settlement worked well, and in 1875 Mr Channing wrote, "although the settlement presses rather heavily on individual villages, and although, as I hope to show, in one circle, Chak Mandikhera, some reduction of assessment is in justice required, yet the present assessment has on the whole worked well. Transfers by sale have been very few, mortgages are not, except in a few instances, oppressive, and the revenue has been regularly and easily collected."

37 The Second Regular Settlement was begun in 1872. Mr Channing joined as Assistant Settlement Officer in 1873 and remained in charge of the settlement operations until the end of 1877, by which time all the actual assessment work was completed Mr. Channing found that population had increased 52 per cent, cultivation 34 per cent, and that there had been a considerable rise of prices. On the other hand well irrigation and natural flooding had both decreased

The instructions on which the assessment was to be based are contained in Section 121 of the Final Settlement Report. The demand was not to exceed the estimated value of half the net produce ordinarily receivable by the landlord either in money or kind. These instructions introduced a new and reduced standard, intherto the Government share of the net assets had in theory amounted to two-thirds though in practise the pitch of the summary and first regular assessments was determined by the average collections of the jagirdar. In any case it was probably above the half-net-assets.

The processes by which Mr Channing's rates were framed are detailed by him in Section 141 of the Settlement Report. He was unable to derive any substantial assistance from each rents, as the villages in which competitive each rents existed were extremely few, and his assessment was based almost entirely on his estimate of the produce, one sixth of which he took as his standard,

The estimates of yields were, as I have stated in pacingraph 29, rather high, and as the barani yields were applied to the whole cultivated area, the value of the produce was probably somewhat over estimated. The total value of the gross produce of the tabsil as then constitued was Rs 15,16,164 and the proposed assessment Rs 2,40,739, or 95 per cent of the one-sixth gross produce

As in Palwal Mr Wood thought that the proposed rates were too lement, but they were eventually passed without alteration. Mr. Channing however found himself unable to assess fully up to his rates, and the jama as finally announced was Rs 10,000 less than the jama proposed.

The following table shows the results of the re-assessment in each of Mr. Channing's circles (excluding the fifteen villages transferred from Nuh at the end of the settlement) —

}	2	3	4	5	6	7
,	Punahana	Bhuder	Landoha	Mandikhera	Chikuot.	Total Tahsil
Value of one sixth gross produce Existing Jama	R _प 89,533 56,120	Rs. 53,692	Rs 50,420 47,852	Rs 27,217 31,500	31,832 23,006	Rs 2,52,69± 2,02,917
Jama proposed Jama sauctioned Increase per cent	78,582 76,123 +36	50,573 48,990 + 10	53,651 51,526 +8	26,935 27,884 —11	30,498 25,958 +13	2,40,739 $2,30,481$ $+12$

The assessment of the 15 villages transferred from Nuh at the end of settlement amounted to Rs 8,030, thus bringing the total assessment of the tahsil up to Rs 2,38,511

The general aspects of the breakdown which followed the famine of 1878 have been discussed in the Assessment Reports of Rewaii and Palwal, and need not be referred to here. Owing to the character of the Meo the breakdown was worse in the Mewat than in other parts of the district. The assessment of Tahsil Firozpur is examined circle by circle in paragraph 61 (Section 6—11) of Mr. Wilson's Revision Report, and the following temporary and permanent reductions were granted.

1	2	3¢	4	5	6
	Bangar	Bhuder	Dahar 1tha	Dahar Kharı	Chiknot
Permanent	4%	8%	7%	3%	5%
Temporary	10 %	9%	6%	2%	8%

The percentages of temporary reductions shown here are less than those given by Mi Wilson in Appendix VI of the Revision Report Mr Wilson's figures include reductions due on land in the possession of mortgagees, to whom as a matter of fact no reduction was allowed. This explains the small percentage of temporary reductions in the Dahar Khari Circle, which in 1883-84 was almost as heavily involved in mortgage as it is now.

The total permanent reduction for the whole tahsil amounted to Rs 12,040, or  $5\frac{1}{2}$  per cent of the jama, and temporary reductions amounting to Rs 18,079 were granted for seven years on the understanding that at the end of that period the Deputy Commissioner should decide how much of the original assessments should be re-imposed. Between 1883-84 and 1889-90 the seasons were generally favourable and the condition of the tahsil greatly improved. At the end of the seven years Rs 2,653 of the amount for which temporary reductions were granted were remitted permanently and Rs 15,426 re-imposed. The total amount therefore by which Mr Channing's assessment was finally reduced was 6 per cent

The following statement shows the fixed jama of the tahsil at the various periods alluded to and 1905-06 —

1	2	3	4
Period	Jama	Incidence on cultivation	Remarks
Summary Settlement  1st Regular Settlement  2nd ditto ditto  1883 84  1889-90  1905-06	Rs 2,25,591 2,03,174 2,38,511 2,00,717 2,22,970 2,22,919	Rs a p  1 11 5 1 7 2 1 5 2 1 6 8 1 5 10	194 villages only 229 do 244 do

Details of the fluctuating assessment imposed on cultivation in the Kotla Basin will be found in Statement XVI.

38. The revised assessment worked well and the demand was paid with working of the expiring Settlement since 1689 ease between 1890 and 1895, when the long series of bad seasons began, which continued up to 1905-06 1895-96 and 1898-99 were poor years, while 1899-1900 was a famine year.

A recovery was made in 1900-01, but another series of poor rabis was followed by a serious failure of the kharif and rabi harvests of 1905-06 in the Dahar and Chiknot Circles. In the Bangai and Bhuder Circles the harvests of that year were nearly average. These two circles have suffered very much less from the recent bad seasons than the Dahai Circles. In both the kharif is the chief harvest and in the Bangai Circle the canal and in the Bhuder Circle the lightness of the soil have enabled a large area to mature in spite of the scantiness of the rainfall. The Dahar and Chiknot Circles on the other hand—especially Chiknot—have suffered severely from the bad seasons, and in the fodder famine which lasted from August 1905 to April 1906 it is estimated that 75 per cent of the cattle of the tahsil perished. Owing to the scarcity of grazing the Mewat always suffers more severely in a fodder famine than the rest of the district.

The kharif harvest of 1906 was good, and the rabi harvest of 1907 exceptionally good, and these two harvests have much improved the condition of the tahsil, but a succession of good or average seasons is still required to restore the villages to their condition in 1895.

The following statement shows the suspensions, remissions and collections of revenue during the last 21 years in percentages on the average khalsa demand —

						ļ						-			COLL	COLLECTIONS		
	-		STRPENSIONS	IBIONS					REKIEBIONS	SNO	ŀ	1		-	-	-		
YEAB	Bangar	Bhuder	Dahar	37	Chiknot.	Total.	Bangar	Bhuder	Dabar Mıtha	Dabar Khari	Ohiknot, T	Total Ba	Bangar B	Bhuder   I	Dahar Miths K	Dabar Kharı	Ohiknot	Total.
							j	\\	اِ	  -	120	=	1 42	15	18	17	18	13
1	69	80	47	۵	9	-	ا ا ا	<u>,</u>	2	;	+	<u> </u>	1	1	<u> </u> 	<del> </del>		<u> </u>
			1			4							101 3	2 96	8 86	108 8 F	Fixed 102.2	
1895-96	_		2.1			r				<del></del>			93 0	93 1	0-46	99 3 F		
1886-87					;	,	•		•		<del></del>	···-	<b>7</b> 16	92.7	95.1	97.2 F	Fixed 93 9	
1887-88		9	,			- E	•					-	916	939	95 4	97 3 F		33.0
1888-80			<b>ξ</b> 9	,	,	ŝ ;	7				 :		39 6	6 66	95 1	953	Fixed 957	
1889-90	13	1.7	9	 	D3	т т							102 4	102 4	105 4	1044 F		
1890-91		•											102.4	108.7		102 1 F	Fluctuating 1027	102 5
26 1881						1							101 9	101 6		100.5 F		
1892-98		63				8		•					0.101	1001			Fluctuating 6213 Fixed 1015	
1893-94													7 7	1 0			ating	
1894-95						3			•	···-	~			e tot		,	ating	
1895 96	89		, .		23 6	16								101 9	101 3		achog	
1896-97			Ф	77	19 4	1.6			-			•		103-0	100 5		Fixed 88.0	
1897 98	•									•		- <u>-</u>	102.1	1020	101 8	101.9 F		
1898 99	11	4	9	4	19-9	20	<del>-</del> ,	—	•		-	:	100.0	101	0-001	10000		
1809 1900	50.9	89 4	31.9	67 5	87.3	48 7				•		-	51 1	737	69 5	42 5 F		
10.0081		-						<del></del>	•				129 5	1103	117.8	128.8 F		
1901-03	96	248	38 6	21.12	545	24.7	20 0	19.5	28 8	44.2	130.2	36 1	88 3	0 02	62.6	850 F		
1902-03	26	81	186	90	29.6	8.1		:		·			1001	101	89.2	106 7 F	Fixed 734	
1808-04	66	13-1	151	55	18.9	11.5			13		•	က	931	888	858	983		
1904-05			:	•									113 5	183 5	1203	123 0 E	_	
1905-06	8.49	52.8	46.7	45 6	87.0	54.1	ъ	3 1	13:1	13.2	618	4.6	450	48.6	24. 25.	55 3	Fixed 14.5 Fluctanting 20.7	25.5

The remission in 1901-02 were on account of the Coronation, and in 1905-06 were of sums outstanding for more than three years. The amount under suspension at the end of Rabi 1907 was as follows—

1	2	3	4	5	6	7
	Bangar	Bhader.	Dahar Mitha	Dahar Khari	Chiknot.	Total
1 On account of previous	Rs 2,570	Rs 5,866	Rs 9,309	Re 2,143	Rs 2,631	Rs 22,519
years 2 On account of 1905-06	44,278	23,238	21,698	16,881	12,125	1,18,220
3 Total	46,848	29,104	31,007	19,524	14,756	1,40,739
4 Proposed for recovery with rabi instalment of 1907	10,346	7,002	8,222	5,832	2,075	93,477
5 Proposed for remission (Rabi 1907)	845	5,304	6,974	109		13,232
6 Total proposed re-	11,191	12,306	15,196	5,941	2,075	46,709
7. Balance outstanding	35,637	16,798	15,811	13,083	12,681	94,030

All unrecovered balances existing when the new demand is announced should be remitted

#### CHAPTER II.-MISCELLANEOUS.

39. The total population at the last census was 1,32,287. Separate figures for the children of each tahsil are not available, but adopting the average of the whole district the population may be classified as follows:—

			1				2	3	4
c		I	Detail.				Males	Females	Children under ten (excluding infants)
Urban Rural	***	•	•••	Total	•••	•	8,312 42,158 50,470	7,632 38,160 45,702	3,816 19,080 22,896

Infants have been estimated to number 10 per cent. of the total population. The simple diet of the zamindars of this district is described in the corresponding chapter of the Rewari report. I do not think that over a series of years there would be any difference between the diet scale of this and the Rewari and Palwal Tahsils.

The Meo is not nearly such a hard worker and probably eats less food, but, as cattle are so scarce, milk probably forms a smaller item in his diet, and he has to consume more grain food.

I therefore adopt the same diet scale as in Rewari and reproduce it for reference below —

	1			2	3	4	5	6	7
				M	LES	Fen	ALES.	Сни	DREN
				Ohataks per diem	Maunds per annum	Chataks per diem	Maunds per annum	Chataks per diem	Maunds per annum
Urban Rural	*	•	• •	10 12	5 <u>\$</u>	ωo	41 5	6 6	3½ 3½ 3½

The total annual consumption is therefore 6,48,180 mainds

The yield of food grains is given in the detailed produce estimates, and the tabal totals in maunds, after making the fodder allowances detailed in paragraph 31, are as follows —

Jowar		65,291	Chaula	1,589
Barra	•	1,70,255	Wheat	. 12 161
Maize	•	2,520	Baley	. 1,67 350
Mnng	•	6,729	Gopui.	17 107
Mush		1 195	Gram	1,31 298
Moth		7.826	Goelior	16 '61

I have estimated the yield of the fluctuating cropping at the dality yields of the circle

I show below in the case of each crop the amount of seed sown per acre, the percentage of the sown area which fails and the resulting deduction to be made on account of seed. In estimating the percentage of Thursha the proportion of irrigation must be kept in mind. The total amount of seed sown is obtained by increasing the total matured area under each crop (Statements VIII and IX) by the percentage in column 3 and multiplying the result by column 2.

For conversion into flour the following deductions should be made -

Jowar Bajra Maizo	}1‡ per cent	Whert Pulson Mixtures	. } five per cent
Barley		. 10 per cent	

The total amount of converted food grams is therefore as follows -

	1	2	3	4	5	6
	Crop	Seed fown per acre in sers	Percentage of failed to fown men	Total amount of sted sown in manneds	Net produce in manuals	Net produce in rinuids after conver sion into Conr
lowar Bajin Maizo Mung Mash Moth Chaula Wheat Barloy Gojia Grum Gochni	,	8 3 5 5 50 50 50 50 40	25 25 20 25 25 25 20 20 20 20 21 22	3,344 0,007 05 284 51 207 65 7,800 25,084 3,025 14,549 7,348	61 890 1,75 218 2 125 6,145 1,144 3,619 1,512 34,664 1,12 366 11 172 1,16,749 38,956	61 116 1,71057 2,195 6,123 1,087 3,138 1,137 32,950 1,25,129 1,463 1,10,912 37,008
Total				65,912	5,99,210	5,71,115

There appears therefore to be a deficiency of food grains amounting to about three-quarters of a lakh of converted maunds, but the total includes \$5,421 maunds of wheat, gojra and gochni which are more valuable than bajra and barley, the staple food grains, and the exchange of the former grains for the latter would represent an addition of about 20,000 maunds to the total. Further the produce in Statement XIII is 3 per cent below the average of the last 21 years and as I pointed out in paragraph 34 the produce of the Dahar Mitha Cricle is unduly low. In this circle, the Government share is probably about Rs 5,000 less than it ought to be, which equals roughly agross deficit of Rs 30,000, which sum may be taken to represent about 20,000 maunds of barley and bajra flour. On the above facts we are justified in adding about 60,000 converted maunds to our total of Rs 5,71,115. This leaves a small deficit, but we have still to take account of the fact that owing to the bad seasons not only is the produce 3 per cent below average for the whole tabsil, but in the Dahar Kharr and Chiknot Circles it is much more and the character of the seasons has entirely altered the character of the cropping. In normal years the area under wheat, gojra and gochni in these circles would be much larger.

I think it may be assumed that over a series of years the food grains are a little more than sufficient to feed the people, though in view of the severe pressure of population on the soil in parts of the tabsil I do not think we can expect to find much excess of production over consumption.

After deducting one-half of the gross value of the sugarcane and sarson and one-tenth of the gross value of the cotton, the value of the non-food and miscellaneous crops (including those in the fluctuating area) is about Rs 3,10,000 to which must be added something on account of excess production of food grains As the present khalsa demand with cesses and canal dues amounts to Rs 2,83,987, this estimate leaves very little margin for clothing and the other necessaries of life, and cannot be accepted as correct have already pointed out the very serious decrease of the area under cotton in recent years due to the scantiness and lateness of the rains, and a considerable addition must be made to the estimate on this account. Possibly also the fodder deductions are excessive and the net produce of food grains is too small ever, I think the above facts illustrate clearly the extreme poverty of the tahsil, and explain why the people are unable to tide over even one bad year good year the value of the produce is very much greater than my estimate, and the people of the tahsil, over-populated as it is, are able to feed themselves, pay their revenue and live comfortably, but in a bad year the value of the produce is insufficient for these purposes, and in such years it is fatal to attempt to collect from the Meo the revenue which the thrifty Ahir or Jat would be able to pay out of the surplus of good years My figures if correct seem to indicate the necessity for a substantial reduction of assessment, but in the Mewat a large reduction would be useless, and what is indicated is exceptionally careful revenue management, revenue being liberally suspended in bad years and collected again in good years

# PART III.

## CHAPTER. I -- PROPOSED ASSESSMENTS.

Summary of statistics

40 The leading statistics bearing on the assessment are summarised in the following table —

ť

1	2	3	j 4	5	, 6	7
	Bangar	Bhudor	Dahar Mitha	Daliae Kharı	Ohiknot	Total
Percentage of cultivated to total cultur-	97	98	97	99	9.	3 97
able area.  Decrease of cultivation per cent.  Percentage of chahi irrigation to total cultivation	8 4			3 3	5 4	
Percentage of nabra arrigation to total cultivation	13					5
Increase of irrigation per cent Percentage of abi and dahri Settlement	1,175 1			8 <b>2</b> 9		
to total cultivation (Now  Percentage of superior barani to total cultivation	1 69			7 70	4 57	
Percentage of bhur to total cultivation. Increase percent of wells in use (excluding dhenklis)	6 196			10 <b>6</b> 6		
Increase per cent of lass in use Percentage of sweet wells (excluding dhenklis)	255 53			69 37	450 62	
Average depth to water of pakka wells	30	29	21	13	18	24
Average depth of water in pakka wells in feet	29	18	រេទ	11	٠5	19
Average area irrigated per pakka lao	3	3	4	2	3	3
Increase or decrease per cent of bullocks (excluding bulls)		+9	-12	—15	33	<b>-</b> 3
Increase or decrease per cent. of ploughs Cultivated area per plough in acres	+2 J6	$^{+15}_{16}$	1 - 1	—17 17	-34 27	-1 17
Increase or decrease per cent of population	+32	+9	+18	5	-14	+16
Incidence of rural population per square mile of cultivation	517	468	491	465	295	478
Average area in acres per owner Net area available for profit per owner	7 5	9	9	6	6 4	8 5
Percentage of cultivated area sold since settlement	1	5	14	5	4 2	4
Average sale price per acre in rupees Percentage of cultivated area under mortgage	111 29	43 27		116 53	50 47	49 34
Average consideration money per acre in rupees	49	42	37	58	38	46
Amount of ansecured debt in rupees Percentage on land revenue (1905 06) n of matured to cultivated	2,48,396 312	1,24,250 280		89,088 238	31,186 217	5,91,687 265
area— Irrigated Abi and dahri Superior barani Bhur	67 7 121 93	51 49 106 95	109	50 15 101 120	112 20 89 56	59 26 119 98
Total	100	91	90	<b>8</b> 8	681	93

1	2	3	4	5	6	7
,	Bangar	Bhuder	Dahar Mitha	Dahar Kharı	Chiknot	Total
Percentage of failed to matured crops— Irrigated Univergated Percentage of area cultivated by owners ,, of tenants-at-will paying cash rents (not being at revenue rates) Increase per cent of prices .	3 24 65 13	8 31 54 19	52	13 33 55 21	37	6 30 59 18
Half-net-assets of last settlement (one- sixth gross produce for 229 villages)	Rs 89,533	Rs 53,692			9,049	Rs 2,52,694
Half net-assets of present settlement (244 villages) by Lind rents  Half-net-assets by cash rents	1,11,586		53,579 55,097	46,775 Rs 6 46,841	52,963	• •
Value of one-sixth gross produce of present settlement.	1,06,852	51,120	47,604	Rs 62 41,635	14,394	2,61,605
Present fixed assessment	79,661	44,420	47,276	Rs 56 37,411		2,22,919

As already stated in paragraph 7 the apparent increase in wells in use, laos and hingation must be taken for what it is worth. There probably has been an increase to make up for the serious decrease of flooding.

In giving the value of the one-sixth gross produce as estimated by Mr. Channing I have grouped the Mandikhera and Chiknot Circles together, as, owing to the transfer of six villages from the present Chiknot Circle to Dahar Khari, the present and former circles do not correspond. The difference in the number of the villages affects the Bangar Circle only, as all except one of the 15 villages transferred to the tahsil are in that circle.

The bearing of the above statistics on the assessment will be discussed circle by circle

41. Before detailing my assessment proposals for each circle I wish to make a few general remarks about the method of assessing Meos method to be adopted in assessing the proprietary body of this tabsil. Enough has been said to indicate the improvidence of the Meo and the severe pressure of population on the soil. The combination of these two factors ienders the problem of assessment an extremely difficult one. The former makes a full assessment combined with a careful and elastic revenue management theoretically desirable, while the latter makes the adoption of this course very difficult. The problem is how to impose an assessment light enough to leave a fair margin for comfort and the necessaries of life and at the same time not so light as to demoralize the people. In assessing the various circles I have tried to keep this principle in mind

42. This circle contains 103 villages, and comprises the former Punahana Circle and 14 out of the 15 villages transferred from Nuh at the end of last settlement

The striking feature of the statistics in the preceding paragraph is the area under canal irrigation which now protects 18 per cent of the cultivated area. In consequence this is the most secure circle of all, and we find that 102 per cent of the cultivated area produces matured crops, though some deduction must be made from this very high percentage on account of the underestimate of failed crops alluded to in paragraph 28. With regard to the large increase of wells and lass in use and of the area irrigated from wells I must refer to the remarks in paragraph 8.

There has, however, been a large increase in the total number of masonry wells and a corresponding increase of irrigation may be presumed. Ploughs and bullocks have increased slightly and population largely. The area sold is very small, and the area mortgaged is not large for Meos. The settlement jama, though a large increase, amounted to a lower percentage of the half-net-assets in this circle than in any other, and with the reduction given at the revision may be said to have been very light. Prices have risen largely and the opening of the Agra-Delhi-Chord Railway, which passes within a few miles of this circle, has very much improved communications. The above facts all indicate a considerable increase of assessment. On the other hand the owners have always been lightly assessed, and are in consequence somewhat demoralized, and their cultivation compares very unfavourably with that of their more heavily assessed fellow tribesmen in the other circles. Any increase of assessment which is taken must be a moderate one, and must be justified by an increase of resources. This practically confines the increase to the nahir villages, as most of the barani villages, though lightly assessed, are not in a position to pay much more than they are paying at present

I compare below Mesers Channing's and Wilson's rates and jamas with the rates and jamas based on kind and cash rents —

1	2	3	4	5	6	7	8	9
	Chahi	Nahrı	Dabri	Chiknot and Narmot	Magda	Bhur	Total cultiva- tion	Jama
	Rs a p	Rs a p	Rs a p	Rs a p	Rs a p	Rs n p	Rs a p	Rs
Mr Channing ,, Wilson Kind rents Cash rents	2 8 0 1 11 0 1 12 6		2 2 0 1 8 0		1	0 8 0	1 3 1	80,658 1,11,586

Mr Channing's rates are for the S9 Punahana villages only, as his rates in the villages transferred from Nuh were various. Mr Wilson left Mr Channing's loam rates untouched and obtained his reduction by reducing the rates on chabi, dahri and bhur, all of which soils were considerably overassessed.

The present assessment is Rs 79,661 and the increases given by the kind and cash rent jamas, respectively, are 40 and 34 per cent

The first point for decision is the method of assessing canal lands as to which I would refer to paragiaph 41 of the Palwal Assessment Report reasons for a fixed assessment of canal lands are if anything stronger in this tahsil than in Palwal There are not likely to be any material reductions of the existing supply, and, even if reductions are made, the difference between the value of barani and nahri land after allowing for canal dues is so small that a reduction of the water supply would not make the proposed assessment press heavily on the villages affected. It is true, as I stated in paragraph 8, that small extensions of irrigation are to be undertaken in the near future, but these can if necessary be provided for by rules similar to those proposed for the Palwal Tahsil, though, as the net profits of canal arragated land are not much larger than those of barani, the interests of Government would not suffer much if these profits remained untaxed during the currency of the new settlement. The area irrigated by "lift" is very smill, and for the same reasons as in Palwal (vide paragraph 41 of the Palwal Assessment Report) I do not propose to make any difference between the rates on "flow" and "lift" In paragraph 3 of this report I described the Lohinga Valley Canal and the Shakrawa and Shahchoka Bunds The statement at the end of that paragraph shows that up to 1896-97 there was a good deal of flooding and a fairly large income from abiana, but that since that year not a single acre has been irrigated. I have given reasons for holding that there is not likely to be any overflow from the Nuh Tahsil in the future, and it is therefore useless to classify any part of the area formerly irrigated as abi, but, as it is impossible to foretell what the insult of a return to normal seasons will be, a fluctuating rate per matured pakka bigha should be maintained levied in addition to the baram rate whenever there is any flooding in this area.

The fixed rates which I propose are—

1	2	3	4	5	6	7
Soil	Rate	Area in acres	Demand	Total	Incidence	Rehares
Chahi Nahri Dahii Chiknot Narmot Magda Bhur	Rs a p 1 9 0 1 9 0 1 9 0 1 4 0 0 10 0	5,690 10,675 754 45,941 4,147	Rs 8,891 16,680 1,178 57,426 2,592	Rs 86,767	Rs a p	Nahri includes chahinahri, and the superior barani class includes the area classed in Statement II as abithe dahri area is that given in paragraph

This is an increase of 9 per cent on the present assessment and amounts to 81 per cent of the half-net-assets (which may be taken to be Rs 1,07,000), and to between  $\frac{1}{7}$ th and  $\frac{1}{8}$ th of the gross produce. This is a light assessment, but it is not too light for the Meos of this circle. My assessments of finished villages yield an increase of 8 per cent which is nearly the same as that proposed for the circle

The chahi, nahri and dahri rates may seem low, but the chahi is extremely inferior, while nearly all the extra profits due to canal irrigation are absorbed by the canal dues. The dahri is flooded from a hill stream and is precarious and inferior.

The loam is a good strong soil, but is very dry and requires much more rain than it generally receives. The low rate which I have imposed on it is justified by the large percentage of the sown area which fails

The bhur is also inferior.

My baram rate is the same as Mr. Wilson's and the proportions of the various rates are exactly those of the normal cash rents except in the case of dahr of which there are no cash rents, and of chahi and nahri, where I have raised them slightly to allow for the greater security of the cropping Paragraph 26 shows that the chahi and nahri rent rates were considerably reduced at attestation, and I am not sure that this was not a mistake.

The present fluctuating rate on abi flooded from the Lohinga Canal is Re 1 per matured pakka bigha. This rate is in my opinion too high and I propose the same rate as I shall propose in the other circles of this tahsil—10 annas per matured bigha, or Re 1 per acre. I do not think the difference between abi and baram cropping can be assessed higher than this. In this circle, there is no difference between abi and dahri, and as the abstract statement in paragraph 34 shows the difference between the value of the dahri, and baram cropping is exactly Re 1 per acre.

This circle contains the same 58 villages as at last settlement 43 apparent increase of irrigation is probably Bhuder Circle real as the total number of wells has increased very largely, and the wells of this circle have always been in fairly Further some increase of resources is only what we should expect from the general prosperity indicated by the considerable increase of ploughs and bullocks, and the comparatively small percentage of the cultivated area under mortgage The soil is very light, and the produce is not valuable, but as Statement X shows it is wonderfully secure, and the circle as a whole has suffered very little during the past ten years of drought On the other hand, though population has increased by only 9 per cent, the net area per owner free for probt is only 6 acres, which is very little for such light soil, and the present jama is a full one, though it stands after reduction as it was before last settlement enhancement taken by Mr Channing was hardly justified and the assessment broke down terribly in the famine which followed the imposition of the new demand The circle is now in a prosperous condition because, owing to the regular use of the wells and the lightness of the soil, it has not suffered like the rest of the tahsil during the recent bad years, but I do not think there are any grounds for an increase of assessment

I compare below Mr Channing's and Mr Wilson's rates with the half-net-assets rates based on kind and cash rents;—

1	2	3	4	5	6	7	8	9
	Chahi,	Abı	Dahrı	Chiknot and Narmot	Magda	Bhur	Total culti vation	Jame
Mr. Channing Mr Wilson Kind rents Cash "	Rs a p 3 0 0 2 12 0 2 9 0	Вя а р 2 12 0	2 4 0	1 8 0 1 10 0	1 2 0 1 4 0	0 14 0 0 11 0	1 2 7 1 7 0	49 401 45,172 55,650

Mr Wilson's reduction was obtained by largely reducing the bhur rate, which was much too high, as the small decrease in the chahi rate was counterbalanced by a slight increase in the rates on narm it and magda. But even Mi Wilson's assessment was a little high, as existing cash rents show, and Mr Maconochie in fixing the assessment for the remaining term of settlement was unable to take Mr Wilson's permanent jama, and it was reduced to Rs 44,420 at which it now stands

The rates which I propose are—

	1	2	3	4	5	6	7
	Soil.	Rate	Area in acres	Demand	Total	Incidence	REMARKS
Chahi Abi Dahri Obiknot Narmot Magda Bhur	,	Rs a p 2 4 0 2 2 0 2 2 0 2 2 1)  1 7 0 0 11 6	4,807 82 943 10,592 22,400	Rq 10,816 174 2,004 15,226 16,100	Rs 44,320	Rs a p	

This practically maintains the present assessment, but it amounts to 85 per cent of the half-net-assets which may be taken to be Rs 52,000 and to almost exactly one-seventh of the gross produce. It agrees with the result of my village inspections, the total of the tentative assessments of finished villages corresponding with the total of the existing james. The percentage of the half-net-assets which it is proposed to take is fairly large for Meos, but it is justified by the security of the cropping, and the comparative prosperity of the circle

Chahi — The chahi rate is the average rate for the three kinds of chahi. The rate for kachcha wells will be much lower, but this decrease is counterbalanced by a correspondingly large increase in the late on the valuable dhenkli chahi

My proposed rate is 8 annas less than Mr Wilson's, but as the half-net-assets rate is only Rs 2-9-0 Mr Wilson's rate seems to have been too high. An effective comparison between the former and present chahi rates in this circle is possible, because the chahi areas of last settlement and now correspond almost exactly as regards the proportion of chahi soil actually irrigated Statement III shows that taking the area irrigated as 1 the chahi soil of last settlement is equal to 18 and of the present settlement is equal to 17. As my rate amounts to 88 per cent of the half-net-assets rate (Rs 2-9-0) I do not think it can be said to be too low

The decrease in the chain rate explains why, although there has been an increase of irrigation amounting to 400 or 600 acres according as we accept the figures of Statement II or Statement III (I prefer the former in this circle, as the average irrigation of the last eight years is owing to the large number of bad rabis probably above average), yet no c rresponding increase of as essment is possible

Abi -The small abi area in this circle is all irrigated from the Kotla Bund. The area finally classified as abi is, as in the case of dahri, the area which I consider will be flooded in seasons of normal rainfall my No 609, dated 27th May 1907, to the address of the Settlement Commissioner. it is desirable to get rid as far as possible of the system of abiana, and I propose that this abi should pay a fixed rate like dahin. In years of exceptionally good rainfall a larger area than that now classified as abi may possibly be flooded This is of course a common feature of all flooded land from the Bund great deal of land which is not classed as dahri is occasionally flooded, but, as the flooding is precarious and uncertain, the land is classed as barani opinion it would be simplest and best to forego the extra assessment on land which is outside the area now classed as abi in the event of its being irrigated by floodwater from the bund, but, if it is considered necessary to assess it, then a fluctuating rate of annas 10 per matured pakka bigha=Re. I per acre may be imposed, subject to conditions which will be discussed later The old rate is a little low, but the new rate (vide paragraph 3) is much too high for the inferior irrigation of this bund. As I pointed out in paragraph 3 the water is mixed with sand, and the people attach very little value to the irrigation

In this circle the abi area is in two villages only:-

			1	Acres
Fakharpur Khori	,	•		13
Karheri				69
		Total	••	82

The abi in Fakharpur Khori is deep sand in the bed of the Balauj stream, and no higher fixed or fluctuating assessment can possibly be imposed in this village. The abi in Karheii is of a much better quality, and can pay the fixed rate proposed by me and also the fluctuating rate on land flooded but not classed as abi, if Government decide to impose the additional fluctuating rate,

The Ghata Shamsabad and Rawa Bunds are, as shown in paragraph 3, supposed to pay abiana at the rates shown in the statement in that paragraph As the former has been breached for years, and as there has up to the present time never been any irrigation from either bund, I do not understand how any rates can have been fixed for future irrigation from them, and in any case I certainly cannot express any opinion on the suitability of the rates now proposed. This cannot be done until the quality of the land after it has silted up sufficiently for irrigation purposes becomes known, and until it is seen what crops can be grown from the irrigation.

Dahri—The dahri is fairly certain of regular flooding in seasons of good rainfall, but is inferior to the dahri of the Dahar Mitha Circle because very little of it is flooded by the Landoha Half the area is flooded by the Tirbeni and half by drainage water from the hills

Barant—The loam and the bhur both vary very much in quality as the villages of which the circle is composed adjoin the other four circles, and their lands resemble the lands of the various circles which they adjoin, but they are on the whole superior to the corresponding soils of the Bangar Circles, and the higher rates are justified. The proportions of the rates proposed correspond fairly closely with the proportions of normal cash rent rates, but I have taken a slightly lower bhur rate to allow for some of the inferior land not being regularly cultivated, and I have lowered the abi rate to allow for the fact that the abi in Fakharpur Khori cannot pay anything higher than the bhur rate of the circle.

Dahar Mitha Circle

44 This circle contains the same 31 villages as the former Landolia Circle

There has been an apparently large increase of irrigition, but the increase is mostly on kachcha wells and abanklis and is presumably due to the recent dry seasons and the cessation of flooding. The increase in the total number of pakka wells is small. The flooded area has decreased very largely. As already explained,

there was no flooding between 1898 and 1904, and the area classed as dahr is that which was flooded in both the years 1904 and 1906. This area amounts to 4,364 acres, and is little more than half the area recorded as dahri at settlement. For reasons already explained it is impossible to say whether the present estimate of the flooded area is a fair one. Possibly no area at all ought to be recorded as flooded, while on the other hand the succession of bad seasons may have led to its being under-estimated. In the circumstances, however, the present area must be accepted for assessment purposes. The large decrease is only what might be expected. Since the first regular settlement there has been a continual decrease of the area flooded by the Landoha, and this fact was noted and explained by Mr Channing (vide paragraph 28 of his Assessment Report). Since last settlement cultivation in Alwar has probably increased still further, and in any case the alterations made to the Atria Bund are quite sufficient to explain the further large decrease of flooding

Such dahm as there is is of excellent quality, as it is nearly all from the Landoha. In addition to the large decrease of flooding, which is somewhat compensated for by the increase of irrigation, which varies inversely with the amount of flooding, ploughs and bullocks have decreased, and the area under mortgage is very large.

Although these signs of deterioration are probably due to the disastrous series of bad rabis since 1896, still the present assessment is rather high in view of the decrease of flooding, and some reduction is indicated

I compare below Mr Channing's and Mr Wilson's rates with the half-net-assets rates based on kind and cash rents —

1		ય			3			4	]	5,			6			7		8
	Ol	ab	1	D	abr	1		nkn and arm	М	agd	a	В	hur	•	cu	ota ltiv		Jama
Mr Channing ,, Wilson Kind rents Cash ,,	Rs 3 3 3	8 0 4		Rs 2 2 2		P 0 0	1	12 10 13	_	a 6 6	p 0 0	0	r 2 14	P 0 0	2 1 2	8 0 13 1 2	p 0 5 7	47,694

Mr Channing decidedly over-assessed this circle as is indicated by the fact that his jama was 2 per cent in excess of the value of his one-sixth gross produce. The chahi and bhur rates were especially high, and Mr. Wilson substantially reduced the rates on these soils besides giving a small reduction on dahi and narmot. The chahi rate remained high, but presumably was framed to allow for the possible expansion of irrigation in dry years. The jama fixed by Mr. Maconochie in 1889-90 was Rs. 47,276 which is exactly the present jama. Owing to the precarrousness of the dahi it is extremely difficult to assess this circle, but the rates which I propose are—

1	2	3	4	5	6	7
Soil	Rate	Area in aores	Demand	Total.	Incidence	REMARKS
Chahi Dahri Chiknot	Rs a p 2 12 0 2 4 0	4,491 4,364	Rs 12,350 9,819	Ra	Rs a p	
Narmot Magde	1 9 0	12,531	19,580			
Bhur	0 14 0	4,113	3,599	45,348	1 12 5	

This is a reduction of a little over 4 per cent and amounts to about  $82\frac{1}{2}$  per cent of the net assets (which may be taken to be Rs 55,000), and to nearly one-sixth of the gross produce, but as I pointed out in paragraph 34 the estimate of the gross produce seems unduly low, and I do not think the proposed assessment can amount to as much as one-seventh of the gross produce.

I have inspected all the villages in this small circle except three, and my tentative village assessments yield a decrease of 4 per cent which agrees with the assessment now proposed for the circle

The proposed decrease is not large in view of the decrease of flooding but, as already pointed out, in this circle this can be and has been somewhat compensated for by an increase of irrigation.

Chahi — The chahi rate is lower than at last settlement, but Mr Channing's rate seems much too high for Meo cultivation, and is not justified by the normal cash rent rate of this settlement. The proposed rate is only four annas lower than Mr. Wilson's rate, and this is accounted for by the fact that the present area contains a much larger proportion of kachcha chahi.

Dahn -The dahn rate is by no means high for the good dahn of this circle, which could pay a higher rate if flooding were certain, but it has been kept low to allow for the effect of the Atria Bund

Barani—The low lying loam and clay in the centre of the valley are of excellent quality, and can easily pay Re 1-12-0 per acre, but the circle average is reduced by the inferior, high lying loam alluded to in paragraph 26, which cannot pay a higher rate than the loam of the Bangar Circle which it resembles

Bhur.—The bhur is a good, moist, fertile soil, much superior to the bhur of the Bangar and Bhuder Circles. Except of dahri the proportions of the proposed rates agree with the proportions of normal cash rent rates, and except in the case of chahi my rates are almost exactly the same as Mr Wilson's.

45 This circle contains the 28 villages of the Mandikhera Circle and 6 villages of the former Chiknot Circle.

There has been an enormous decrease of

flooding due to causes detailed in paragraphs 2 and 6, but the number of pakka wells has nearly doubled, and, though the irrigated area in Statement III is not much larger than the area irrigated at last settlement, Statement III shows that a large expansion is possible. Moreover from its situation in the centre of the valley the soil even when not flooded is kept moist by percolation and is almost equal to dahri Still ploughs, bullocks and population have decreased and more than half the cultivated area is under mortgage with the result that the net area free for profit per owner is less than 4 acres. In this circle the mortgage and deterioration are due not so much to any decrease of resources or to over-assessment as to the severe pressure of population on the soil, and the position does not seem to be much worse than in 1883-84 when Mr Wilson revised the assessment Of course the circle is suffering from the effects of the past ten years of drought, but it has suffered less than the Chiknot and Dahar Mitha Circles.

The circle cannot be said to be over-assessed, and it is useless to try and remedy the evil of over-population by any large reduction of assessment

I compare below Mr Channing's and Mr Wilson's rates with the half-net-assets rates based on kind and cash rents. The former are for the 28 Mandikhera villages only, and, if they do not bring out the jama in column 9, it is because the rates in the six Chiknot villages do not agree with the Mandikhera rates. The jama is that of the circle as now constituted.—

1	T. F.		2			3			4	-		5		 	6	===		7			8	=	9
		C	habı			Abı,		ומ	abri			nko		M	ngds	<b>3</b> .	E	hur		cult	l'ota ivat	l 1011	Janua
Mr. Channing		3	8	0	ì	ъ.	σ	Rs.			!			Rs.				2		I			Rs 38,420
" Wilson Kind rents	•	3	0	0	1			2	4	0	1	13	0	1	7	0	1	1	0	1	12 3		87,397 46 775
Cash ,		2	8	0	2	3	0	2	5	0	2	4	0	2	4	G	1	15	0	1	3	1	

Mr Channing's assessment was a reduction of 7 per cent, which as pointed out by Mr Wilson in Section 61 (8) of the Revision Report was hardly acquired Consequently a very small further reduction was granted at the revision by Mi Wilson, who lowered the rates on chahi and blur, but raised them on the other soils. Mr. Maconochie assessed at Rs. 37,411, which is the present jama,

The rates which I propose are-

1	2	3	4	5	6	7
Soil.	Rate	Area in acres	Demand	Total.	Incidence	Remarks
Chahi .	Rs. a p 2 0 0	1,762	Rs. 8,524	Rs	Rs a p	
Abı	1 14 0	614	1,151			į
Dahrı	200	875	1,750	]	,	
Chiknot, Narmot,	1 12 0	15,617	27,880			·
Magda Bbur	110	2,029	2,156	35,911	1 11 6	

This is a reduction of almost exactly 4 per cent, and amounts to only 77 per cent of the half-net-assets, which I take to be Rs. 47,000, but it is almost exactly equal to one-seventh of the gross produce, and in view of the severe pressure of the population on the soil and the serious amount of mortgage is a sufficiently high assessment

Chahi—My proposed rate is very much lower than either Mr Channing's or Mr Wilson's rate, but in this circle the area recorded as chahi at this settlement is very large as compared with the area of average irrigation. The proportion which the chahi soil of last settlement bears to irrigation is 17, while that of the present settlement is represented by 25. Cash rents show that the people consider chahi very little more valuable than good barani, and as I pointed out in paragraph 26 the small difference in the rent of the two soils is due to the high rents taken on dhenklis and wells growing garden crops

Abi —Irrigation is all from the Kotla Bund and the same remarks apply with regard to the method of assessment as in the Bhudei Circle The area to which I wish to apply the fixed rate proposed above is as follows —

Vili	lage <b>s</b>		Acres
Nagma	•	••	451
Rajaka		•	42
Bhadas	***		121
		C	
		Total	614

The rate ought to be the same as in the Bhuder Circle, and in Rajaka and Bhadas will be the same, but I have had to reduce the circle rate because out of the 451 acres irrigated in Nagina 256 acres (vide paragraph 3) have been seriously damaged by sand deposits, and it will not be possible to take a much higher rate on this land than the bhur rate of the circle. Any orders passed as to the imposition of a fluctuating rate outside the fixed area will apply to this circle also

Dahr: —From its situation in the northern half of the valley this circle is now almost beyond the reach of the Landoha, and the dahri lands which depend on the Landoha (about one-fourth of the whole) will be flooded only in exceptional years. The rest of the dahri is flooded by hill streams, and is not very good of its kind. A lower rate than in the Dahar Mitha Circle is therefore justified both by actual conditions and by each rents which are very little higher on dahri than on good barani.

Barani —My rate on this soil is almost exactly the same as the average of Mr Wilson's narmot and magda rates. It is a very high rate but is suitable to the fertile, semi-dahai loam and clay of this circle, which in the hands of Ahirs or Jats would pay an even higher rate

Bhus —My rate is the same as Mr Wilson's It is a very high rate for bhur, but is much below the rate indicated by each rents which in this circle almost take the form of an all-round rate. The proportions of my proposed rates excepting on bhur are very nearly those of the normal cash rent rates.

46 This circle consists of 17 out of the 23 villages of Mr. Channing's Chiknot Circle, and one village (Jalalpur-Nuh) transferred from the Nuh Tahsil at

the end of last settlement. The circle is very badly off and has deteriorated seriously since last settlement The decrease of cultivation is not serious, as it is all in the area under fluctuating assessment, but bullocks, ploughs and popuation have decreased very largely, the net area free for profit per owner is, considering the almost total absence of irrigation, excessively small, and nearly half the cultivated area is under mortgage This deterioration is due partly to over assessment, partly to the unsuitability of a fixed assessment to the conditions of the circle, but chiefly of course to the disastrous effect of the last ten years of drought In paragraph 4 I described the character of the soil and irrigation, and I referred to Statement X as evidence of the vicissitudes through which this circle has passed during the cycle of bad seasons. Owing to the saltness of the subsoil water there is very little irrigation, and the hard, black clay soil, which is capable of producing excellent crops of jowar and wheat in good years, yields little or nothing when the rainfall is scanty. The average percentage of matured to cultivated area is only 73, and in the last two quinquennial periods the percentage fell to 63 and 52. It is obvious that a fluctuating assessment is what the conditions of this circle require, but I found on enquiry that the people are very much opposed to the system, and, though this is not a sufficient reason for rejecting it, yet it must be admitted that a fluctuating assessment is if possible to be avoided in Meo villages.

In the Kotla basin cultivation has fallen off for no other reason than that the fluctuating assessment imposed at last settlement has removed from the lazy Meo the incentive to cultivate a proper area. It is to be feared that, if the system is extended to the whole of the circle, cultivation will fall off seriously and the people will be no better off than before, as the area under cultivation will fall below what is necessary for their support In short, a fluctuating assessment will remove a fiscal difficulty, but will not make the circle any more prosperous than it is at present, and will aggravate the characteristic vices of the Meo-lazmess and improvidence. For these reasons I do not think a fluctuating assessment suitable, and recommend a light fixed assessment, which, if combined with very careful and judicious revenue management, will, I think, succeed may be noted that the villages in the Kotla basin now under fluctuating assessment are no better off than those under fixed assessment The following villages have their lands wholly or partly in the Kotla basin and are wholly or partially under fluctuating assessment -

Multhan, Jalalpur-Nuh, Firozpur-Nuh.

The arrangement made at last settlement is described in paragraphs 193, 220 and 223 of the Final Settlement Report A rate of Rs 2 per acre was imposed on the area cultivated At the revision (vide Section 62 of Mr. Wilson's report) certain important changes were proposed and sanctioned As the result of the final arrangement made by Mr Maconochie in 1889, Mr Channing's rate of Rs 2 per cultivated acre was reimposed irrespective of the class of crop grown (vide printed Proceedings, Revenue and Agriculture, Nos 41-49 A, dated January 1891. No. 42, paragraph 10, No 41, paragraph 4, No 48, paragraph 3) Mr Maconochie left the district soon after his proposals were submitted, and both his proposal and the orders of Government seem to have been misunderstood or overlooked as the rate has always been levied on the matured area, and the first of Wilson's rules has also been allowed to stand Statement XVI shows the fluctuating revenue realised at various periods The decrease during the last ten years is very striking and is the result of the decrease of flooding already noticed. At present the Kotla basin is suffering not from an excess of but from a lack of moisture This is due partly to the network of bunds constructed in the Nuh Tahsil but chiefly to the abnormal character of the seasons. There is no reason to anticipate that in seasons of normal rainfall the jult will not fill as before. In either case the continuance of the present system of fluctuating assessment is desirable. A succession of normal years is very unusual in this district, and the cultivation in the juil is not less

affected by drought than by excess of flooding, as, unless thoroughly moistened by flooding, the hard soil overgrown with rank grass cannot be cultivated I therefore propose the continuance of the present system of fluctuating assessment, which is popular, and which, though it does not stimulate cultivation, is suitable to the peculiar circumstances of the small area within which it is at present imposed

I proceed to compare Messrs. Channing's and Wilson's rates with the half-net-assets rates based on kind and cash rents

The same remarks as to the rates and jamas apply as in the  $\,$  Dahar Khari Circle .—

1	2	3	4	5	6	7	8	9
	Chahi	Abı	Dahrı.	Chiknot Narmot	Magda	Bhur	Total cultivac tion	Jama
Mr Channing ", Wilson Kind rents Cash "	Rs a. p 2 12 0 1 12 0	}	Rs a p 2 0 0 1 10 0	160		0 14 0	Rs a p 1 6 0 1 4 8 1 7 5 1 6 0	,

Mr Channing's assessment was an increase of 15 per cent, and taken as a whole was not considered too high by Mr Wilson (vide Section 61 (9) of the Revision Report). The chahi, dahri and bhur rates were however obviously too high, and the permanent reduction given was obtained by largely reducing these rates. The important rate however, that on chiknot-narmot, was left unaltered Mr. Maconochie assessed at Rs. 14,151, which is the present fixed assessment.

The above assessments may not have been too high at the time they were imposed, but I think the present jama is decidedly too high for the present conditions. It is improbable that the Landoha floods will ever reach this part of the valley in future, and the whole tract is suffering severely from a lack of moisture. The fixed rates which I propose are .—

1	2	3	4	5	6	7
Soil	Rate	Area in acres	Demand.	Total	Incidence,	REMARKS
Chahi Abi Dahri , , Baram Bhur	Rs a p 1 8 0 1 12 0 1 8 0 1 2 0 0 8 0	Rs 52 361 152 10,132 336	Rs 78 631 228 11,398 168	Rs 12,503	Rs a p	

This is a reduction of 12 per cent and amounts to 82 per cent, of the half-net-assets, which may be taken to be Rs 15,200, and to almost exactly one-seventh of the gross-produce estimate as it stands, though as the estimate is about to per cent below normal, the share taken is really less than one-seventh. At the time of my inspection the number of finished villages was less in this circle than in any other, but, as far as they go, my village assessments yield a decrease of 12 per cent, and so agree exactly with the assessment proposed for the circle.

Circle, the chahr and dahri of the two circles being very similar. The dahri is

in only two villages and is flooded by drainage water from the hills. Both chahi and dahri are very inferior

Abr.—The abi is all irrigated from the Kotla Bund and the area on which I propose a fixed assessment of Re. 1-12-0 is distributed as follows—

							Acres
Mandhe				1	4		8
Hasanpur-Nul	ı	4					23
Sultanpur							161
Umra .	4.6	4	4			•	169
			Ľ	'otal			361

The abi of this circle is farthest away from the source of the streams which feed the Kotla Bund, and I have therefore pitched the rate a little lower than in the Bhuder and Dahai Khari Circles to allow for the greater uncertainty of irrigation, but the water when it does come is more beneficial than in any other circle, as the land lies beyond the reach of sand deposits and the soil, owing to its great strength, produces, when flooded, more valuable crops than the sandier abi of the other circles

I mentioned in my description of the Kotla Bund in paragraph 3 that a sluice has been built at Hasanpur-Nuh to let excess water on to the lands inside the bund which are suffering from lack of moisture, and that in connection with this scheme a small bund has been built at Mau. No water has passed inside the bund since 1896-97, and it seems unlikely that enough water will ever again come down the bund to permit of the sluice being utilized, but, if it does, the fluctuating rate of 10 annas per pakka bigha proposed in paragraph 43 should be imposed. Orders passed as to the imposition of this fluctuating rate on land on the up stream side of the bund, which not being classed as abi is flooded by water from the bund, will apply to this circle also

Barani —The pitch of the assessment is determined by the rate on this sol, as the area under the other soils is insignificant My rate is much lower than the rates imposed by Messrs Channing and Wilson, but I think it is quite high enough for the extremely precarious cultivation of this circle, which ought, if circumstances had permitted, to have been put under a fluctuating assessment. If a fixed assessment is to be successful, it must be a light one,

Bhu —The area of this soil is very small. My rate agrees with the rate imposed by Mi Wilson

Fluctuating area —As at the time of my inspections measurements were not complete in any of the villages under fluctuating assessment, I have not inspected them for assessment, but subject to further enquiry the existing rate and rules appear suitable, and I provisionally recommend that their continuance be sanctioned. I shall have inspected the villages probably before this report reaches the Settlement Commissioner and certainly before he has disposed of it, and, if any further report appears necessary, I will submit it separately. If no such report is received, the above proposals may be taken to be final. There can I think be no question of a return to the rate on cultivation proposed by Mr. Maconochie and sanctioned by Government. The proposal was in my opinion an unfortunate one, and should not have been sanctioned. A rate of Rs. 2 per mitured acre is the highest rate that can fairly be imposed, and is only fair when worked with rule (1) of Mr. Wilson's rules.

Total proposed assessment of the tabul which I have proposed amounts to Rs 2,24,849 against the present assessment of Rs 2,22,919, or an increase of a little less than I per cent. It was remarked in paragraph 13 of the fore ast report that "the thriftless Meos of Firozpur and Nuh have not much improved their resources," and this is certainly true. Were it not for the increase of resources in the Bangar Circle due to the introduction of canal

present assessment by redistributing it over the various circles. As less abiana will be levied in future, it may be said that there has been no increase at all. I append for purposes of comparison the rates in tahsil Ramgarh of the Alwar State, and tahsils Pahari and Kama of the Bhartpur State. The rates of tahsil Ramgarh should be compared with those of the Dahar Mitha Circle which it adjoins, those of tahsil Kama with the Bangar Circle, and of tahsil Pahari with the Bhuder and Bangar Circles. The State share of the net assets in both Alwar and Bhartpur is two-thirds and the rates are stated in the assessment reports in terms of the local bigha which in Alwar is the pakka bigha (five-eighths of an acre), while in Bhartpur it is two-fifths of an acre. To reduce the rates of these States therefore to our standard and measurement it is necessary to increase the Alwar rates by one-fifth and the Bhartpur rates by seven-eightlis.

1	2	3	4	5	6	7	8	Э
Oircle	Chahi	Abı	Dahrı,	Chiknot	Narmot	Magda	Bhur	lotul cultiva tion
	Rs a. p	Rs a p	Rs a p	Rs a p	Rs a p	Rs, a p	Rsap	hs a p
Ramgarh (Alwar)	4 0 10		3 3 7	2 6 5	1 15 2	1 5 7	1 0 10 0 9 7	${}_{277}$
Kama .	3 8 3	2 5 8			1 12 0		1 2 9	2 1 9
Pahari	3 11 1	2 9 0	,		1 14 0		0 15 0	2 4 10

The rates in Alwar and Bhartpur are very much higher than those in this tahsil, and represent an altogether different standard of assessment

Before ending this paragraph it may be useful to show the result of my fixed abi assessments as compared with the fluctuating system hitherto in vogue The Kotla Bund is the only bund on which there is any land classed as abi, and these remarks apply to this bund only The statement in paragraph 3 shows that the average realisations from abiana during the last 16 years amount This is much more than what I calculate to be the difference between the abi and barani rates of the present abi area, which amounts to Rs 472 only but the former total is swelled by the receipts of the years before 1896, that is, before the recent series of dry years set in and before the alterations to the Atria Bund. I have already stated that in my opinion owing to these alterations the Landoha floods are never likely to reach the Kotla Bund in future, and it would be fairer therefore to adopt for comparison the years after 1896, Since 1896-97 realisations from abiana only average Rs 223, which is much less than my assessment of the advantage due to the bund Although the years since 1896 are much below average, still I do not think that ipalisations from abiana are likely to average more than Rs 472, and Government is not therefore losing anything by the fixed assessment, while the gain to the people and to the subordinate officials which will result from the abandonment of the vexatious and difficult system of abiana is very great. I would therefore repeat what I urged in paragraph 43, that it is unnecessary to impose a fluctuating rate on land not classed as abi which happens to be flooded in exceptionally good years

#### CHAPTER II —MISCELLANEOUS

48 In tracts where wells are protective it is almost impossible that the existing rules for protective leases should conform with the principle that the period of protection should be such as to ensure the well-owner a return of his capital with interest at a fair rate. This is clearly brought out by the following statement, which shows for pakka wells, the number of years during which

the wet assessment on than land in each circle must be remitted to allow of the recovery of the capital alone without allowing anything for interest .—

1	2	3	4	5	6	7	8
Circle	Net-assets chahr sorl rato per acre	Net-assets all round barani rate per acro	Not profits per acro due to irrigation	Aren in sores irrigated by a 2 lao pakka well	Annual not pro- fit on pakka woll.	Cost of pakka woll.	Number of years required for recovery of capital only.
Bangar Bhuder Dahar Mitha ,, Khari Chiknot*	Rs a, p 3 9 0 5 2 0 6 9 0 5 0 0	Rs a p 3 0 0 2 4 0 3 0 0 4 6 0	Rs a p 1 5 0 5 2 0 6 9 0 1 10 0	6 6 8 4	Rs a p 7 14 0 30 12 0 52 8 0 6 8 0	Rs 750 600 500 500 450	95 19 <u>1</u> 10 46

Note —The sum in column 4 is arrived at by multiplying the difference between the sums in columns 2 and 3 by the area in column 27 of Statement III and dividing the result by the area in column 33

The above statement shows that in only two circles would the existing period of 20 years suffice for the recovery of the capital cost, and that in one circle only would it suffice for the recovery of the capital with a fair rate of interest. The two circles in question are of course the Bhuder and Dahar Mitha, where the wells are profitable and are regularly used. In the other three circles wells are purely protective and a very long period is required for recovery of the capital alone. In the Chiknot Circle the period would not be less than in the Bangar Circle.

I shall defer making any proposals until orders are passed on the proposals in paragraph 49 of the Rewari Report.

The rules in Financial Commissioner's Circular Letter No 5890, dated 30th September 1904, as amended by Financial Commissioner's Circular Memo. No. 1, dated 10th April 1907, are suitable and should be extended to this tabsil. In the Dahar Mitha and Bhuder Circles, where chahi is much more valuable than barani a good many villages at last settlement distributed their assessment by soil rates, and probably many more will do so when the new assessments are imposed. In the other three circles the chahi is little, if at all, more valuable than good barani, and the assessments will probably be distributed at an all-round rate as before

The paragraph 42 I pointed out that reductions of canal irrigation in willages at present commanded though possible in a few cases are improbable, but that small extensions of irrigation will almost certainly be made in the near future. In Palwal where the difference between the value of nahri and barani after allowing for canal dues is considerable, I proposed certain rules to meet increases and reductions of irrigation (vide Palwal Assessment Report, paragraph 47) In this talkel where the difference between the value of nahri and barani is much less, I do not think the same necessity for such rules exists, but if rules of the nature proposed are sanctioned for Palwal, it would perhaps be advisable for the sake of uniformity to extend them to all canal-irrigated parts of the district. In that case for the eight annas specified in my proposed rule 1 it would be necessary to substitute some such words as "by the difference between the settlement nahri and loam rate," and the same rules would then be applicable to all the three tahsils in which there is canal irrigation.

51. Reh is serious in one or two villages in the canal-irrigated tract, and although it is hoped that the new drain will improve their condition, any rules senctioned for the Palwal Tahsil (ride Assessment Report, paragraph 48) should be made applicable to this tahsil also

^{*} No data available

as abi, but as I have proposed a fluctuating rate on irrigation, if any, from the Shakhrawa, Shahchoka and Mau Bunds and on irrigation by means of the Hasanpur sluice, and as Government may wish to impose a fluctuating rate on the other lands not classed as abi, but irrigated from the Kotla Bund, rules for the working of the fluctuating assessment are necessary. A single set of rules for the whole district will probably have to be sanctioned finally, but at pre-ent I am only in a position to propose rules for this tabil. The following appear suitable—

(1) No abiana shall be levied on any of the following classes of land .-

(a) Land classed as abi

(b) Land classed as chahi or dahii even if flooded by water from a bund, unless such land is flooded at the express request of the owner or cultivator

(c) Land flooded owing to the breaking of a bund

- (d) Land seriously injured by sand deposits. Objections to the levy of abiana on such land may be submitted to the Tahsildai within ten days of the date on which notice of the intention to levy abiana was given, and will be decided by that official after inspection of the spot by himself or by the Naib Tahsildai. Abiana should ordinately be remitted when the land though flooded has become incapable of producing crops of a better class or yield than unflooded land. The objector may appeal to the Collector or such officer not lower in rank than an Assistant Collector of the 1st grade as the Collector may authorise against the decision of the Tahsildai within 15 days of the date on which he was made acquainted with it
- (2) Abiana shall be levied on the matured area only

(8) Abiana shall be levied on the same land only once in the year. The crops of each harvest shall be measured up separately and assessed to abians, but land which has paid for a matured kharif crop shall not be charged again for a rabi crop if grown

Rule (1) (b) is necessary owing to the uncertainty which has existed in the past Lands classed as dahri were regularly assessed to abiana until a few years ago, when the point was raised on appeal and decided against the District Board Mr Halifax and other authorities on the Gurgaon Bunds are of opinion that dahri land advantaged by bund water should pay abiana at half rates and in paragraph 5 of No 58 dated Lahore 19th March 1906 from the Chief Secretary to Government Punjab to the Senior Secretary to the Financial Commissioner Punjab this view finds support, but it is in my opinion quite untenable classed as dahri is assessed at a rate which assumes that it will be flooded in years of normal runfall, and it is unlikely to be flooded by bund water in any year in which it would not be flooded by drainage water in the ordinary way Not only is it unfair as a detail of assessment to levy abiana on dahri land, but as a detail of management it is very difficult to work fairly Where abi and dahri lands adjoin it is often quite impossible to decide with any certainty whether the water which advantages the dahm is from natural flooding or from the bund If left to the patwari he invariably assigns it to the bund On both the above grounds therefore I am of opinion that except in certain specified cases no abiana ought to be levied on dahri land unless it is flooded at the direct request of the owner or cultivator In this tabail there is no controlled irrigation by cuts, and so this contingency can never arise, but as cases will arise in other tahsils I have left the rule in the form which will be suitable for the whole district Similarly the only occasion when chahi should pay abiana is when the chahi This contingency is not likely to arise in this lands are flooded by request tabsil, but it has arisen and will arise in other tabsils, and the general rule is Whenever chahi and dahri lands are extremely inferior and therefore proper would really be advantaged by bund water, they will of course be excepted from the operation of this rule For instance in this tabul I should have excepted the chahi and dahri lands of the Chiknot Circle and proposed to assess them at half abiana rates, if there had been any chahi or dahri within the range of flooding, but there is not

Rule (1) (d). I think this provision is necessary, because it is very unfair that land which has so deteriorated that it cannot fairly pay even the barani rate imposed at settlement should have to pay abiana in addition. I have roughly indicated the procedure which seems to be necessary for carrying out the rule, but in the other tabsils there will be other reasons justifying remissions of abiana, and a procedure suitable for objections of all kinds will have to be prescribed, and the procedure now proposed need not be considered final

Rule (2) is the existing rule and should be continued.

Rule (3) is one of the rules at present in force in the area under fluctuating assessment. In my opinion it is equally necessary in the case of crops grown on land flooded from a bund The possibility of its adoption was suggested in paragraph 5 of the letter quoted above The existing rule by which abiana has hitherto been levied both on kharif and rabi crops matured on the same land in the same year is manifestly unfair. The only case in which two crops are matured in the same year in flooded abi land is, when a kharif cereal is followed by gochni, bejhar or gram The kharif cereal could not possibly be benefited. by the flooding and would generally be damaged, and the yield would almost certainly be less than in barani land. The imposition therefore of abiana on the kharif crop in addition to the fixed barani assessment is unfair advantage from the flooding is derived from the valuable rabi crop (generally gochni), which can be sown if there has been good flooding, and this is the only crop which ought to be taken into account for the purposes of abiana cotton matures at the kharif, no rabi crop is possible A matured cotton crop is extremely rare in flooded land and in any case the position remains unaltered. as the net value of cotton and gochni is very nearly the same The various forms therefore which a year's matured cropping in flooded abi land may take are as follows .-

Kharif Rabi

1 Cotton

2 Jowar or bajra

Bejhar or gram. Wheat, gothm

In the first two cases, which are unusual, the flooding must of necessity have been very light, or for cotton abnormally heavy, while in the third case which is the prevailing form it will have been average In all three cases the value of the cropping is about the same, and the case for imposing abiana only once in the year is therefore established. Differential crop rates are of course theoretically desirable but their introduction would involve an amount of trouble which would be out of all proportion to the advantages gained One rate for all crops, levied only once a year on the same land, gives a result which is suffi-The proposed rule may not have been quite clearly worded, and I ciently fair. wish to point out that it is not my intention to propose that a whole field, any part of which has borne a matured kharif crop, shall be exempt from payment of abiana at the rabi. The prohibition only extends to that part of the field which has borne a matured kharif crop. Thus in a field of one bigha, if three biswas yield a matured crop at the kharif and are assessed to abiana, the remaining 17 biswas may be separately assessed to abiana at the rabi, if they yield a matured rabi crop

In the Government letter already alluded to it was suggested that the assessment should be made only once a year ie, in the rabi, but I think there are objections to this proposal. The cultivator who grows only a kharif crop might find it inconvenient to pay the assessment on it at the rabi, and any objections to the assessment of a kharif crop would have to be dealt with by the Collector or Assistant Collector long after the crop had been harvested, and it would be very difficult to come to a proper decision. On the whole I think it would be better to retain the rule in the form proposed

The existing rules as to the inspection and assessment of lands liabele to pay abiana are a set drawn up by Mr Hamilton in 1901. The rules have worked extremely well hitherto, and I do not anterpate that many modifications will be necessary, but it will be necessary to amplify them in certain points, eg, by making provision for objections &c. My proposals will be submitted later when I am in a position to submit rules applicable to the whole district. If it is decided to introduce the new proposals for assessing abi and

levying abiana piecemeal by tabsils, then my proposed rules for this tabsil should be provisionally sanctioned, and the system of fluctuating assessment should continue to be worked according to the rules laid down by Mr Hamilton in so far as they are not cancelled by my proposed rules, and as soon as possible I will submit for sanction a final set of rules for the whole district

53. The term of settlement which is suitable is 30 years. If a shorter term is finally sanctioned for the canal villages in Palwal, it will probably be advisable to his the same term for canal

villages in this tahsil also, but no orders on this point are required at present. The present settlement expired with the rabi instalment of 1907. As pointed out in my No 905 dated 6th August 1907 to the address of the Settlement Commissioner the present assessment was by an oversight sanctioned up to Rabi 1908, (vide orders of Punjab Government and of the Government of India in the printed Settlement Report) but as the engagements taken from the owners under Act XXXIII of 1871 were for a period of 30 years ending (approximately) with Rabi 1907, the mistake does not effect the date from which the new demand can be imposed. The question has been settled as regards the Rewari Tahsil, and in this tahsil no importance attaches to it, as there appears to be no possibility of orders on this report being received in time to permit of the demand being imposed before Kharif 1908. The new demand should be imposed from that date, provided that orders are received in time.

Cesses.

54 The sanctioned cesses are—

			${f R}{f s}$	a	p	
Local rate			8	5	4	
Lambardarı	•		5	0	0	
		Total	13	5	4	

These should be continued I have submitted separately proposals for the abolition of the office of chief headman, which were called for in Settlement Commissioner's endorsement No 879 of the 9th March 1907

Points on which orders are required.

55 Orders are required on the following points —

- (1) The proposed rates and assessments including the method of assessing (a) nahri (b) abi (c) land not classed as abi, but which may possibly be flooded by water from the Kotla Bund (d) land which may be flooded from the Shakhrawa, Shahchoka and Man Bunds (e) land in the Kotla basin under fluctuating assessment (paragraphs 42—46)
- (2) Adoption of the rules for the remission of the wet assessment when a well falls out of use (paragraph 49)
- (3) Question of adopting the rules proposed in paragraph 47 of the Palwal Assessment Report, if they or similar rules have been sanctioned (paragraph 50)
- (4) Adoption of the rules proposed in paragraph 48 of the Palwal Assessment Report, if they or similar rules have been sanctioned (paragraph 51)
- (5) Adoption of rules for regulating the assessment of abiana on lands not classed as abi, but irrigated by water from District Board Bunds (paragraph 52)
  - (6) Date of imposition of the new demand (paragraph 53)
  - (7) Cesses (paragraph 59)

Extract from a letter No 579, dated 2nd May 1902, from the Deputy Commissioner,
Gurgaon District, to the Political Agent, Alwar State

7 The third point is the most important of all It appears that the Alwar Darbar have erected a huge masonry wall \$\frac{1}{2}\$ miles in length, running almost parallel to the hills right up to Atria temple, traversing in its course the old earthen embankment, shown as "Landoha Bunds" on the map referred to in paragraph 4. The zamindars of Firozpur complain most bitterly of this action of the Daibar and aver that the wall in question has entirely intercepted their supply of water. I do not know the full particulars of this work, and before I express my opinion on it I shall be glad to know when it was built and with what object. But I cannot refrain from remarking that a work of such magnitude should not have been allowed to be constructed without the concurrence of the Punjab Government, considering that its effects are far reaching and are not unlikely to upset all the arrangements bitherto made between the officers of that Government and the Raja of Alwar, for controlling the waters of the Landoha stream

Extract from a letter No 337, dated the 22nd July 1902, from the State Engineer,
Alwar, to the Political Agent Alwar

- 9 With regard to the Atria Bund nothing has been done to which the Punjab Government can raise objection
- 10 The bund was constructed in old days and had been working, (whether effectively or not is beside the point) for years before the Punjab Province came into existence
- 11 As first made, like the majority of village-made earthen bunds, or dhols, it was irregular in form and weak in structure
- It burst frequently, when the flood causing the breach ran directly down the old channel of the river to Gurgaon and this may have given rise to a wrong impression of the amount of water which the dividing arrangement at Karaoli should give to Gurgaon
- 12 To remedy this state of affairs, and secure to the Alwar State their proper share, at my suggestion the earth bank of the Atria Bund was faced with masonry, and this is the masonry now complained of.

The masonry has merely been given to prevent the bund breaching and the Alwar State is perfectly within its right to repair or strengthen any bund in its territory in the way most to its advantage, and no one outside the State has any right to make objection.

13 The result of the masonry face wall has been that the bund has not breached in late years and it is hoped will never breach again

This and the many successive dry seasons has caused Gurgaon to receive less water than previously had been their good fortune, mainly through the misfortune to the Alwar State by the breaching of their old established bund

Extract from a letter No 3074, dated 24th July 1902, from the Political Agent, Alwar State, to the Deputy Commissioner, Gurgaon District

As regards the construction of the Atria embankment I would invite your attention to page 200 of the Gurgaon Settlement Report where you will find that the Atria Bund was constructed by the Jats over 100 years ago

The Alwar Darbar is perfectly within its rights in strengthening or repairing this old bund in any way it considers proper and any action it may have taken in this direction is not therefore open to discussion

# GLOSSARY OF VERNACULAR TERMS USED IN THE REPORT.

Vernacular	English.
Abiana .	An assessment levied in addition to the assessment at unirrigate
ADIAGA .	rates on account of the advantage derived from irrigation
Ahır .	A Hindu caste
Anna.	One-sixteenth part of a rupee
Arhar	A pea (Cajanus indicus)
Badnı	A gambling transaction
Bajra	Spiked millet (Pencillaria spicata).
Bangar	Uplands
Bania .	A Hindu caste
Baranı .	Dependent on rain
Batan	Rent taken by division of crop
Bejhar	A mixed crop of barley and gram
Bhaiachara .	A form of tenure where possession is the measure of right
Bhuder	. Sandy
Bigha .	A measure of area 1 pakka bigha = \( \frac{1}{2} \) of an acre.
Band	Protective embankment
Chamar	A kamın (Q V)
Charsa	Leathern well bucket
Chari	Jowar grown thick for fodder.
Chhalak	One-sixteenth of a ser (Q V)
Chaula or lobia	An autumn pulse (Vigna cattang).
Dahar	Flooded land.
Dhenkh	A hand-lever well
Dhol .	A low earthen wall
Dhania .	Cornander seed
Dofash	1 <del></del>
Fash	Yielding two crops in each agricultural year Agricultural year
Ghi	Clarified butter
Gochni	A mixed crop of wheat and gram
	A mixed crop of wheat and barley
Gojra Guar	An automo pulsa (Cramanus propalardos)
Gur	Unrefined sugar
Jagır	An assignment of land revenue
Jagirdar	Holder of an assignment of land revenue
Jama	Land revenue demand.
Jat	A Hindu caste
Jhoka	A man who tends the fire on which the juice of the sugarcane
	boiled
Jinswar	Harvest crop statement
Jowar	Great millet (Sorghum vulgare)
Kachcha	(Of a well) not lined with masonry
Kamin	. A village servant
Khalsa	. Revenue credited to Government as contrasted with jagir (Q V)
Khanzada .	A Muhammadan caste
Kharaba	Portion of a crop which has failed to come to maturity
Kharch	Cess realised by landlord in addition to rent
Kharıf .	Autumn harvest
Khasra gırdawarı	Harvest inspection register
Lakh	One hundred thousands (100,000)
Lambardar .	Village headman
Lao .	Literally well rope Well area worked by two (generally) yoke
20.	bullocks
Malı .	A Hindu caste
Malikana	Fee paid in recognition of proprietary title
Mash	An autumn pulse (Phaseolus radiatus)
Maund	Eighty lbs
Meo Mewat	. A Muhammadan caste
Moth	Tract where Meos live
Mung	An autumn pulse (Phaseolus acontifolius)
Nala	An autumn pulse (Phaseolus mungo) A stream
Pakka .	(Of a well) lined with masonry
	1 (0. 2 nen) mon monomy

Vernac	ular	English.			
Pala Pargana Patridari Patwari Pula Rabi Rajbaha Reh Sarson Ser Seri Sheikh Tahsil Taramira Til Urd Zabti Zamindari		The dwarf ber (plum) A group of estates forming a sub-division of a district or tabsil Held on ancestral or customary shares (a form of village tenure) A village accountant Munj grass Spring harvest A distributary of a canal A saline efflorescence in the soil Rape seed A measure of weight=one-fortieth of a maund (Q V) A cess of one ser per maund of the produce taken by landlords A Muhammadan caste Sub-division of a district in charge of a Tabsildar Rape seed A man who makes gar (Q V) Sesame The same as mash (Q V) Cash rents levied on account of crops of which the produce is not divided. Landowner A form of tenure where the village is owned by a single proprietor or set of joint proprietors			





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# STATEMENTS.

## STATEMENT I —RAINFALL

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			1	3,0,1	03.	7,050	18	80,861					287	<u> </u>	2000	211	21,351	i							82 258	149	373 210	10,190	577	11,073	_
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,	•	•		197	285	240,1 210,1	21017	7,801		:	: -		111		3,700		5,863			-			-			g.		2,783	101	2,080	
				1,755	1,565	10,056	4,000	23,000	• :		:	\ . 	873	340	11,323	2,420	18,103			. •	-	:	=		193	128	288 189	7,713	380	8,003	
7 1	3,136	2000	25,050	4,191	3,005	8,0°.	1,11	25, 109	1,216	8,304	2,110	20,052	1,762	1,067	11,387	3,029	20,807	88	6,987	311	11,335	1,206	12,030		131	7,081	303 836	11,033	911	11,944	_
٠. ١	•		•	<u> </u>	•	€.	:	•	-	•	• •	:	.•			•	·	•	•		•				• •	•			<u>'</u>	<u> </u>	_
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3 t	19.	, <del>, , , , , , , , , , , , , , , , , , </del>		200	-	·····			110				158					318					318		200				300	903	
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/	7,3(5)			7,473					1,605				1.668		_			190				61	710		781			<b>.</b>	23	784	-
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\rac{1}{2} \cdot \frac{1}{2} \	13,730			43,670					22,000		-		22,670					12,403				1,310	13 727		12,390		* · · · · · · · · · · · · · · · · · · ·		1,300	13,600	_
/	- 613																	t;					<u> </u>	<del>-</del>	<u> </u>						-
~~~~	fust Foltly			1905 (3					Last Sottly	10001			1905 08					Last Bottle	ment			Ditto	Ditto		1002 00				Ditto	Ditto	
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/ ,	Dolise Altha			£	3/6				Dahar Rharf				É					Chikrot fixed				Fluctuating	-		=				Flactuating	ET .	

17			G	Denama Denama						L			
16			Kacheha wolls and Ohouklis and	daring the year	1	639 Kachehawolls 269 Dhenkhs 380			689 Kachcha wells 259 Dhonklis 380	2,167 Kachahn wells600 Dbonkits 1,667			Rachcha wolls600 Dhenklis 1,567
15		LAND	ogu voj∶	19 20 eau	ar latol	1 100 In 1150 8-1 Not in 1139 51.			1,16 Io use 651 \otimus 50'	1,587 In uso 1,216 Not in uso 347			1 547 In 250 1,210 Seem 1180 317
11		WELLS INRIGATIVE LAND	ne other se during	re becor nuctor us ar	Eillen in n okivr ethe ver					91			16
13		1 1	en mado	is und o have be	dorda 1					51			81
12	TILE NO	190 1-06	-	nvos as	Total are					8,369 8,767 8,767 12,037 11,13,11	10º 99r	111	193,570
12	ARRA T	0 Cl TC	þа	firî Eqoi	Jo 2974					253 253 21, 253 7101 7 101 10 871	11,154	141	11 Jest 11
10	Avenage) EARS 1800 61 TC 1901-05	ited	3977Ad eq	Total ore		<u> </u>			2,656 2,056 7,137 7,137 2,737	151 811	18.	1, 2,2,1
6			160	n bodrvil	Total cal	12,681 22,187 71,031 21,919 31,110	16.195	1 29'	166 25	16,50° 10,7° 3,001 9.2. 66.66 23,170	163, 16,	16	161,371
0	0			Dotail		Ohnhi Dahri Varmot Mogda Bhur	Total	Dahrı 🕭		Chahi Nahri Abi Dahri Narmok Marmok Ibar	Total	Մոհեւ	
4	-	OTHER P	Available for cultitation		Otaer	4,051			4,051	1,384			0723
	£	UNCULTIVATED OTHER THAN LORRESTA	Available fo	perated anomi	orqqanU 11970Đ 61887V			<u>-</u> -					
	us (;	UNCULT	caltiva	Tol elds	Not avail tion	32,310		2.1	32310	32,822	6	9	32,815
	•				Ротевр	-						$\overline{\cdot }$	-
	3			,	sera faioT	201,326		1,319	202,844	200,668		1 30	396,102
	63				Year	Last So ^t tlo ment		Ditto	Ditto	1905 06	:	Dritto	Ditto
	1			As essment Cirole		Total Taball Fixed		Flacturting	Total	X Fa		Flactuating	Total

STATEMENT III -Wells and irrigation from Wells,

30			Renabes	Tho area shown	ns urigated us theaverage of the cutta	988	both l the matured and falled area			,					
38		ago.	Per Dhenkli	4	4	3	~	3 1			~				. 8 . 8
36 37 38		Arcrago	Per kachcha lao	-60	~		ಣ						_ &_		 69
35	QZI.		Пьвоки	H	3	64	20	119	157	83	53	- C		1	330
3.4	Irricated	Total arca	Касьсья	17	161	371	180	110	178	247	101			<u>_</u>	320
33	1	Total	Pakka.	837	2,43(1,765	2,261	1,298	1,847	426	545	-	31	19	7,004 7,094
12	p)	190	Per Dhenkh	1 9	<u>ب</u>		ر ي	4 1							
36 31 12	RAT	Argrage	Per Lachoha lao	-5	0	- σ	9	į×.	-	73	rD.		- E3	¦-	9 6
29 J3	Afit		Dhenkli	2	90	53	83	131	326	80	90		C3	ا	537
28 2	AT CII	rea	Елевова	347	120	555	694	170	772	282	23.2		•	•	1,818
	ASSESSED AT CHAIL RATES	Fotal area		3,071	6,520	2,292	4,024	2,815	3,110	873	,425	, ca	620	1	
75	Δ 68		Pakkn	-E		<u>ن</u> دي	77	δ, Ω	, (C)		_ <u>;</u> `	~	- 13		4 11,120
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25	prrii	Of water	Касьсва	23	- 62	10 11	38	<u></u>	18	<u>:</u>		13	_ ==	12	
77		0	Гакьа	l											
23	ΔνΓαλοι	16	Dhenkli	13	10	3 14	14	7 13	17		71	11	=		- Fi
22	Δγ	To water	Кисись	3 47	23	26 26	28	17	1 25	3 13	13	<u></u>		0	
177		Ř	Pakkn	8 36	06 83	82	62	<u> </u>	7 21	13	8 13	10 11	17 18	- 10	
02	9. H	١	Dhenklı				100	135	357	1.33	178			380	
GI	NUMBER OF		Касисьа	12	#	133	211	4	131	7.8	ङ			198	
18	VUNDER OF		Pakka	260	916	375	732	30)	206	101	260	- 61	11	1.048	2,465
17]	Dhenklı	·	-	2	13	Ŧ	19	33	26	. с.	10	15	-
10	Впаскі		Касьсья	13	c)	4	48	9	ę,	£1	23			1,4	
10	ı E		Pakka.	1 107	111	2 88	1 130	63	Ţ.	20	86	3	4	313	
7		1	DhenFli						17		13		ŗ3,	1	ا د
13	SALT		Касьора.	12	24	1	~1	-	₹1	75	9			18	= !
27	02		Pakka	47	121	10	3	23	56	9	53	61	A	15	300
==			Dpenyյı	7-	67	85	18,	13.1	322	'n.	11(31	င်	3.4	704
101	Swfer		Кверера	30	38	115	163	35	103	9	17			318	157
0	8 III		Pakka	195	238	282	326	188	323	48	10	44	80	182	989
8		<u>'</u>	Dhenkli	8	68	87	19,	136	357	131	17c	33	17	Σ	810
1	CBC		Касьсья	6	38	133	212	9	131	77	2			133	614
0	I		Lakka	£	333	272	178	180	200	78	602	63	11	653	1,370
2	H.	<u>. </u>	Dhonkli		63	80	184	136	757	133	178	15	4,	28.	8 10
4	иликам		Е ясьора.	55	8	150	213	10	181	8	Ž.			33	E
2	Toran 1		Pakka	349	470	380	153	273	32.3) !		Ç.	-	jŝ	1,59,
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			#	Last Rottlament	q ₀	ďo	do	do	do	đo	do	ďЪ	do	10,	do
62			Yzar	3ettl		-		_				•			- 11
				Last	Presont	Last	Present	Last	Presont	I net	Jr grad	Lunt	Present	I ast	Pregnt
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STATEMENT IV - POPULATION AND CATILE

ALL.

22		Нешатка				<u> </u>		
21	ATION	1061 al	56,239	33,627	19,621	17,20	5,596	1, 32, 237
50	Population	[68] In	50,098	27,836	15,691	15,050	5,190	113.874
119		Ріопдря	4,1281	2,363	1,527	1,916	436	0.6761
18	-	Boats					:	
17		Carts	8 30	998	200	303	120	1819
16		еГешлО	49	87	30	16	e e	165
15		Дорубун	1,322	850	497	396	26	3.167
11		Males.	10	H				1 "
13	7	Horses and ponies	986	450	560	366	105	2.167
21	1903 04	Goata	18,742	689 15,147	031'6	5,221	2,473	3.59, 50.76 3
11	-	dəoliS	1,788		606	32	148	3.59.
22		Young stock	10,718	6,144	3,500	2,850	1,154	10,731 21,366
6		Cow baffulocs	5,021	2,34r	1,574	1,247	511	10.731
8		asolaffind slald	258	163	141	44	53	635
7		втоО	7,036	4,461	2,410	1,610	738	16,285
=		Balls and bullocks	8,544	4,913	2,896	2,609	961	19,923
5		Population in 1881	42, Hc	30,726	16,591	18,031	G, 5 to	1,14,34
4	1	Plonghs		2,051	1,608	1, 160	C63	9,803
3	LAST SRITLEMENT	All cattle	19,322	10,725	7,897	4,329	1,240	43,513
CS	LAST	Вилоска	8,403	4,427	3,188	3,021	1,411	20,453
		Assessment Orrole	Bangar	Bhuder , ,	Dahaı Mıtha	Dahar Kharı	Chiknot .	Total

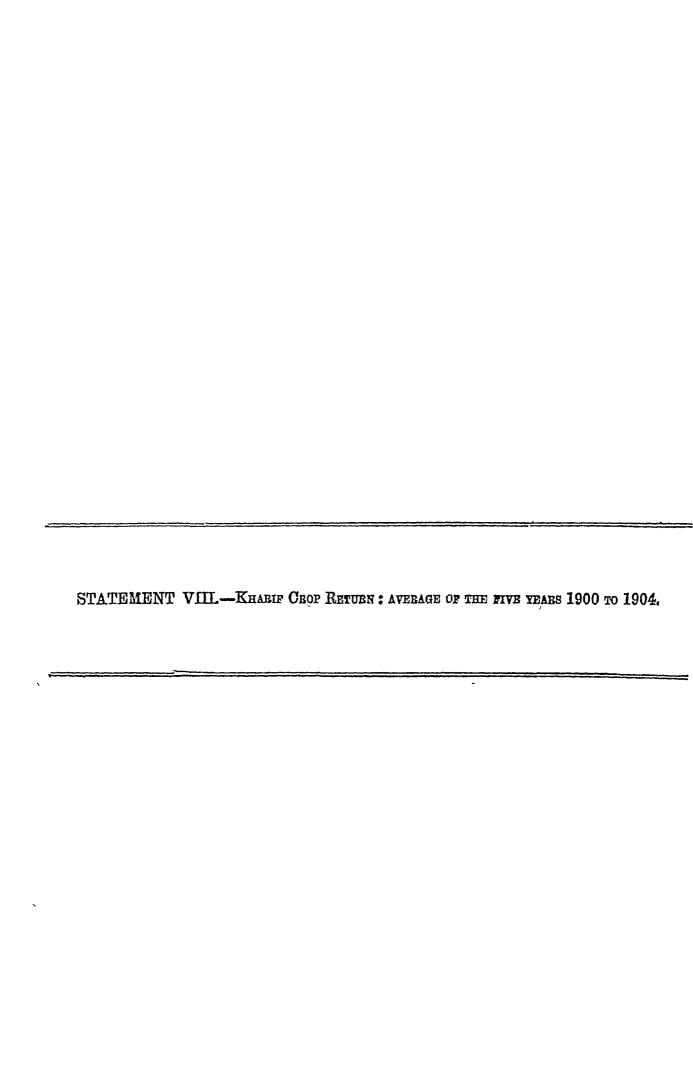
		3	4	5	6	7
1	2 0	3	4			<u> </u>
Assessment Circle	Year	Detail of main tribes	Number of owners and shareholders,	Ar Total.	Of which cultivated	Rovenue assessed.
BANGAR	Last Quadrennial { Attestation	Meo Others . Total	8,432 909 9,341	62,178 13,268 75,446	59,420 7,823 67,243	73,748 5,913 79,661
Beudse .	Do {	Meo Khanzada . Others . Total .	3,915 284 245 4,444	29,020 5,842 21,626 56,488	27,809 5,437 5,543 38,789	33,634 5,361 5,425 44,420
Данаг Мітна	Do .	Meo Sheikh Others Total	2,576 1 265 2,842	27,499 3,040 3,133 33,672	21,416 2,695 1,439 25,490	39,131 6,000 2,145 47,276
Dahar Khari	` Do	Meo Khanzada Others Total .	2,610 525 401	16,695 2,989 2,986 22,670	16,266 2,946 1,696 20,908	29,167 5,820 2,424 37,411
Chiezot ↔	. Do	Meo . Others	1,575 77 1,652	12,329 1,361 13,690	11,293 657 11,950	14,457 491 14,948
Fotal Tausil	Do	Ehanzada Sheikh O hers Total	19,108 809 1 1,697 21,815	147,721 8,831 3,040 42,374 201,966	136,204 8,383 2,635 17,158	1,90,137 11,181 6,000 16,309 2,20,716

	·	 -							1		1.4		[l		1 44	1
1	2	3	4	5	6	7	8	9	10	11	£ 12	13	14	15	16	17
					S	ALF	S SIN	CE L	AST S	ETTL	EMENT					
			TO Z	AMINI	AR	3 _					T	то с	ERS			
		Вч о	wners]		CCUPAN NANTS	CY		Вч	OWNERS		F	ST O	CCUPAN NANTS,	ग
Assessment Ciecle,	Arc	a			Ar	ea.			Ar	ea.			Are	:a		
	Total	Cultivated,	Consideration money	Average price per acre	Total	Caltivated	Consideration money	Average price per acre	Total	Cultivated	Consideration money	Average price por acro	Tgtal.	Oultivated	Consideration money	Average price per acre.
Bangar	506	4 91	53,531	105 8					142	187	15,986	112 6	8	8	300	100·
Dhuder .	1,549	1,037	40,686	26-2	177	176	8,978	50 7	508	294	9,460	18 6	283	280	17,985	614
Dabar Mitha	343	887	21,787	63 4	2	1	75	87 5	8,159	8,151	45,823	145	18	18	700	58 8
Dabar Kharı	698	691	74,064	106 1	10	10	532	53-2	814	814	4 8,149	187 4				
Ohiknot	152	150	9,478	62 4					74	78	1,728	23 4				
,							}									
,																
Total	3,548	2,700	1,09,446	61 4	189	187	9,585	507	4,197	3,969	1,16,146	27-7	299	296	18,385	61.6

5,128 5,098 6,507 6,488	Consideration money 7 5,91,327 8 2.57,486	TO ZA	Are 18101 8 997 0 1,088	By occurrence of the state of t	55,722 9, 035	Average price per gore	5,706	Br (c. 2,720	Consideration money	Average prios per acre	 -	Peare Parte	Consideration money	45.7	members of an agricult u r a laribe notified under the Laud Altenation Act but in villages where the own-
Area OulfitAuful OulfitAuf	Consideration money 7 5,91,327 8 2.57,486	Consideration money 31,327 48 48 57,486 43 50,00,224 39	8 997 0 1,088	By occ TEN. 2a psta411100 994 1,048	Oonsideration money 25,722 9,035	5 09 Average price	5,706 2,752	5,672 2,720	Consideration money 2.77,536	S & Average price per acre	714 637	Peare Parte	Consideration money 25.103	Average price per	Zamindars are members of an agricultural tribe notified under the Laud Alienation Abut in villages where the own-
Area OulfitAuful OulfitAuf	Consideration money 5,91,327 5,2.57,486 8 2,00,224	Consideration money 31,327 48 48-106 per acre 36,00,224	8 997 0 1,088	263	Oonsideration money 25,722 9,035	5 09 Average price	5,706 2,752	5,672 2,720	Consideration money 5.77,7.88	Average price	714 637	Peare Parte	Consideration money 25.103	Average price per	Zamindars are members of an agricult ural tribe notified under the Laud Ahenation Act but in villages where the own-
12,129 12,077 5,985 5,948 5,128 5,098 6,607 6,488	7 5,91,327 8 2.57,486 8 2,00,224 6 3,77,154	90.0m mom of some of s	[alo]] 0 1,088	Caltivated 7.048	50,170 55,722 9,035	5 09 Average price	5,706 2,752	7,720 2,720	2,77,536 89,200	Average price	714 637	Caltivated	32,1 0 3 2 9,111	Average price per	Zamindars are members of an agricult ural tribe notified under the Laud Alienation Act but in villages where the own-
12,129 12,077 5,885 5,648 5,128 5,098 6,507 6,488	7 5,91,327 8 2.57,486 8 2,00,224 6 3,77,154	90.0m mom of some of s	8 997 0 1,088 0 264	994 1,048 263	50,170 55,722 9,035	5 09 Average price	5,706 2,752	5,672 2,720	2,77,536 89,200	Average price	714 637	718 627	32,1 0 3 2 9,111	Average price per	members of an agricult ural tribe notified under the Laud Alteration Act but in villages where the own-
5,985 5,948 5,128 5,098 6,507 6,488	8 2.57,486 8 2,00,224 6 3,77,154	.57,486 43 ,00,224 39	8 997 0 1,088 0 264	1,048 263	55,722 9,035	51 2	2,752	2,720	89,200	82*4	637	627	29,131	45.7	members of an agricult ural tribe notified under the Laud Alteration Act but in villages where the own-
5,128 5,098 6,507 6,488	8 2,00,224 6 3,77,154	,00,224 39	0 264	26 3	9,035				-						under the Laud Alienation Act but in villages where the own-
6,507 6,488	8 3,77,154					34 2	3,780	8,740	1,29,201	34 2	285	N mir			
		,77,154 58	0 355	355	01 :00	'	1 1]		200	277	6,935	24 3	ers are not members of an agricult nral tribe, the term includes traps
4,182 8,964	1 20 000		1		21,426	60 4	4,123	4,099	2,80,447	55 9	228	223	15,110	67 8	ferees who are of the same tribeastheown ers of the vil- lage
	* 1,00,292	,50,292 35	9 252	251	10,556	41 9	1,427	1,306 ,	46,672	32 7	51	51	1,755	84.4	•
33,931 33,57			5 g,956	2,911	1,46,909	497	17 785	9	7,73,056	43.5	1,910				,

STATEMENT VII—concluded

1	2	3	4	1	5	6	7	R	9	9	10	(A	12	13	14	15
+				SALES	ı			Мов	TGAG	es es			Ярремр	TIONS		
Assessment Cirole	Чеаг	Cultivited area.	Land revenue.		Price in rupcos.	Price per acre	Cultivated area	Land rovonue		Mortgago money	Price per acre	Cultivated area	Land revenue	Mortzago money	Price per acre	Remieks.
	1856 S7 1887 S8 1888 S0 1883 90 1890 91	 	8	10	467 99 128	467 160	559 443 741 296 203	71: 56: 94: 43: 24:	1 2 5 7	8,868 12,830 21,410 7,800 6,960	33 7 29 0 28 9 24 7 34 3	165 105 157 102 46	219 136 195 143 58	4,364 2,201 4,738 2,363 745	26 4 21 0 30 2 23 2 16 2	
	Total	1	8	$\frac{21}{4}$	139	88 6	2,244	2,89	-	67,896 18,479	801	116	150	2,882		
	Average 1891 92 1892 93 1893 94 1894 95 1695 96	'	5 34 39 7	7 43 93 8 21	700 4 860 2 900 290 590	140 C 142 9 42 C 41 4 36 9	74 483 335 34°	11 62 44 45	15 11 16	3,090 14,703 8,052 12,349 13,549	24 0 85 8	- 64 464 441 189	95 598 625 253 261	2,518 12,929 12,788	28 9 24 6	
0.7‡	Total	1	31	172	9,340	71 9		-	-1-	51,743	<u> </u>		1,832	38,662		
Chirvot	Average 1896 97 1897-98 1898-99 1899 1900 1900 01	ļ	26 29 2 6 6 6	50 3 9 7 8	2,139 450 619 899	78 8 225 0 103 2 60 5	5 5 42	3 35 7 67 9 56 7 6		8,964 26,147 21 010 16,216 5,821	31 8 48 4 49 6 38 9	735 896 90	584 112	3,478 25 096 13 114 8,604 3,533	27 5 34 1 83 1 89 6	
	Total		49	77	8,607	78	6 1,81	7 2,3	71	78,157	48*	.	ļ	49,046	33 6	
	Average		10	16	722		86	-	74	15,631	·}	291		2,509	ļ	
	1901 02 1902-03 1903 04 1904-05 1905-06		1 6	1 8	150 1,000			9 2 0 2 7 2	93 02 12 24 26	6 895 5,788 5,149 5,714 4,659	36 32 4 34	4 88 2 64 2 74	110 89 102	2,002 1,874 2,107	22 8 29 3 28 5	
	Total		7	9	1,150	·	_1			28,193		8 38	· <u>/</u>	<u> </u>	ļ	
***************************************	Average 1896-87 1887-88 1888-89 1589-90 1890-91		2 113 145 90 132 551	589 488 413 221 1,319	6,596 5,651 5,828 9,890 11,118	5 58 1 89 5 59 74	0 6,5 2 4 8 9 3 3	95 8,4 11 9,8 28 6,8 98 5,1	326¦]	5,680 1,51,779 1,90,79 1,16,29 97,25 92,63	9 24 1 29 8 23 9 28	5 1,65 3 1,51 9 1,18 6 2 27	2,501 3 2,410 8 2,008 0 8,426	87,490 34 670 25,530 57 10	22 6 22 9 21 5 22 1	
	Total	1	,081	3,030	88,58		4 23,9	-	 -	6,47,76	-	-	18,649	·	·	
	Average 1891 92 1892-93 1898-94 1891-95 1895-96		128 81 260 251 142	216 165 424 864 199		8 67 6 16: 7 69 60 4'	2·2 5,9 7 6 8,6 8 6 8,9	95 4, 82 4, 29 9, 75 5, 944 5,	248 679 118 508 726	1,29,55 81,57 1,04,15 2,12 17 1,38,28 1,41,34	76 30 51 85 74 35 87 87 44 35	5 3,89 8 6,17 6 2,91 8 2,97	8 8 890 4 6,110 8 9,760 4 4,31	55,41 56,41 96,84 1,43,90 70,44 77,74	2 21 1 1 24 3 0 23 3 3 24 3 9 26	9 3 3 5
	Total Average	-	172	1,368 274	<u> </u>	-1	9 2 19,1	—l—		6,77,58 1,85,50	_	3,70	-	-	-	1
1	Average 1896-97 1897-98 1888-99 1899-1900 1900-01	-	142 230 137 208 459	231 408 249 347 789	12,45 25,36 17,83 29,8 47,8	56 8 38 11 52 12 73 14 88 10	0 3 8, 6 9 5, 1 2 4, 4 2 4,	575 12 834 8 918 7 856 6	,832 ,528 ,357	1 94 75 4,70,95 3,30,65 1,84,05 2,10,25	35 54 36 56 72 3' 44 41	19 4,25 19 11,14 3.7 4,44 7.4 1,45 3.2 1,5	18 17,04 35 7,08 39 2 16 14 2,48	8 1,61 16 0 55 19 1 60,17	9 88 4 86 8 88 7 89	5 1 3 7
	Total	-	1,176 235	2,010	-		2 6 28,		,520 3,504	18,90,6 2,78,1		22,8 4,5	34,88 6,97	-	-	-
	Average 1901-02 1902-03 1903-04 1904-05 1905-06	1	181 219 186 141 527	25 87 81 20 82	1 12,4 0 15,8 5 9,9 3 10,4	84 27 53 30	95 8 2, 72 3 8, 53 5 3, 74 0 2,	598 3 690 5 217 4 843 4	3,608 5,123 1,484 1,004 3,518	1,20 1 1,63 0 1,41,0 1,18,2	90 4 15 4 65 4 82 4	8 8 1,8 4 2 1,9 8 8 2,1 1 6 1,9 5 6 1,9	2,61 27 2,75 06 3,02 34 2,87 94 2,60	2 55,29 7 68,25 7 79,06 0 58,35 70,08	2 30· 32 34 1 34 39 29· 38 35	8 2 7 1
	Total Average		1 204 241	1,96	-		57 8 14		<u> </u>	6,63,1 1,32,6	- -	1,9		-	-	5



STATEMENT VIII.—KHARIF CROP RETURN AVERAGE

1	2	3	4	Б	6	7	8	9	10	11	12	13	14
		·	Czs	FALS	<u>.</u>	1	. ·			PULSES			·
AMERINAN CINCLM	Description of cultivation.	Jown	Bnjra	Maize	Other cereals	Total	Mang	Ansb	Moth,	Guar	Chauls	Othor pulses	Total
Ваночя	Chain Nahri Dahri armet Marda Bhur	6,77 91 6,185 677 49	1 19 21 12,057 4,017 2,207	0 135 119 14 3 	107 166 10 2	15 328 112 18,517 4,718 8,201	8 1 658 125 58	1 49 1 237 19 1	42 181 31 41 275	25 1 1,739 567 366 2,698	88 6 25	1	1 128 3 2,820 747 491
Писрав	Obahi Abi Dahri harmot Magda Ilhur	5 65 559 266 285	1 15 96 601 2,330 10,493	1 2 80 2 2	1 1 9 30 14 15	6 16 172 1,420 2,612 10,795	1 9 74 185 632	1 19 10 13	4 1 3 19 78 495	1 17 165 450 2,598	10 70 756		4 3 30 307 793 4,674
	To*al	1,178	18,736	37		15,021	1,101	48	590	3,241	836		5,811
DARLE MITTER	Chabi Abi D.bri Rermo* Magda Bhe* Total	3 73 2,085 237 94 2,612	328	1 19	2 59 13 17	18 424 4,251 1,798 2,206 8,703	25 412 136 175 748	85 4 - 94	7 67 86 118	21 808 341 377 1,048	2 18 30 82 132		58 910 597 754 2,320
DARIE KRARI	Chal : Ab: Pabri Na-mot , Hamila Bhur	1 24 5 1,366 150	1,493 1,003 659	12 2 1	1	2,963 1,168 2,20	115 53 56		53 83 49 ———————————————————————————————————	8 519 307 270	9 5 87		18 1 753 404 116
	Total Clabi	1,616	3,435			5,171	230			1 104			1 052
Cairnot	Abs Tised Clurtuating Total	112 112 110 3	2 6 0 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7	5 80	42	2,389	1 9 10 93 3 5 102 9	25 1 25 1	7	40	20 20 20 20 20 20 20 20 20 20 20 20 20 2		1 50 61 265 23 31 322 60 351
1 2	Cont. Sold of the state of the	3 3 70 11 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	1 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21 c)	107	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 1 1 6 42, 44 20 7	17 17 231	10 46 5 - 507 1 1 4 1 5 1	71 71 11 11 11 11 11 11 11 11 11 11 11 1	3	1250 1250

15	16 ~	17	18	19	20	21	23	23	24	25	26	27	28	29
Cotton	Sugarcano	TH	Потр	Chillien	Indigo	Fruits	Vegetables	Chari	Other fodder	Othore	Total aroa of crops har vested	Total area failed	Total area sown	Revare
41 2 683 25 3,252 661 95	627 11	1 13 6 630 93 16	1 102 186 31 10	7 3 2	124	. 1 4	8 9 7 1 3	29; 4 2 099 266 21	199 49	1 6 2 1	76 4,327 150 27,729 6 571 2,945	3 142 5 5,665 1,151 965	79 4 469 155 33,394 7724 3,910	Nahri inchi chahi-na and nar includ chiknot.
5 757	638	759	-330	-12	126	14	28	2,679	297	10	41,800	7,931	49,731	
97 8 41 418 435 711	1 1	8 56 43 45	1 9 19 48	13	1	3 6 1 7	5 7 13	7 20 207 216 2 6	17	2 1 2 2	138 25 290 2,605 4 170 16,664	7 10 121 522 604 4,4 84	145 85 411 3 127 4 574 21,148	
1,705	2	153	77	15		17	29	103	259	7	23,802	5,949	29 840	
80 1 172 810 360 235 1 664		32 417 59 25	30 14 8 55	1 25	-	1	16 1 6 1 3	16 504' 1:5	6 6 14		161 5 725 6,956 3,017 3,253	10 136 1,632 929 1,022	171 6 852 8,788 8 946 4 305	
1,010 1,010 123 151	,	241 23	26 11 8	12		1 2	14 1 9 4	788 1 12 847 136 34	39 14 4	2	14 145 30 140 5,91 2 0	3 930 I 45 1 1,176 323	18,078 34 187 21 7,077 2,406	
1,513		273	45	<u> </u>	-		-32	1,030		_, -	9,7.0	259	1,540	
1		1		2		_ -	_j-		_	-		1,835	11 565	
46			- 1	-	- -	- -	_ -	16 13	-	_ -	16	c	22 22 	
41		177:	18		- -	- -	_	23		_ -	265	- 70 - s3	286	
253 55 21		4	1 -				5	658 11 7	35	1	3,892 185 134	1,°56 20 13	4,948 24.5	
622 45 659	-	184	19	5	19	_	2	697 13	as	1	4 278 216	1109	5,356 256	
	-	186	1			_		710	54	1	4 49 4	1,178	5,672	
2,650	·27	13	102		124	8	42' 1	26 207 20	1	1	410 4 827 15-	21 142 62	431 4, .62 250	
255	1	19 2 E0	1 5	_ _	- -	_ _	1	70 10	23		1,235 216		1,511	
1 5 (0) 1 5 (0)	11	1 "02	26	2	2 1	10 5 8	1) 29 13 21	777	25	4 1	T471 1707 12001		1507	
2,261	610		52,		_	36 1		12 -	1		3 5 7 7	390- 677- 777- 114	2.0 2.0	
5 577	en	195	520	71 1	27	30, 1	Is c	00° 6	71 =	1 5	1 164 5	114	8-5	

STATEMENT IX —RABI CROP RETURN

		9 l	4	5	6	7	8	9	10	11	12
1	2	3				B AND PULE	ES			!.	
	-				CEREAL	8 AND POLE	1.6				
Assessment Cirole	Description of oultivation	Wheat	Barley	Gojra	Gram	Gochni	Bejhar	Pons	Arhar	Other pulsos	Total
Ваколя	Chahr Nahri Dahri Narmot Magda Bhur	451 884 14 593 38 8	1,680 1,456 18 2,426 527 236	122 141 10 161 16	8 920 85 9,394 2,052 534	6 430 20 801 63 6	8 649 185 25	34 34 2	10 18 4	6 12 6 1	2,278 3,895 95 14,083 2,838 814
	Total	1,988	6,343	455	12,948	1,326	817	70	82	25	24,000
Вятомя	Chahi Abı Dahrı Narmot Magda Bhur	296 54 263 180 327	1,588 4 49 429 443 1,323	145 35 171 90 213	3, 50 478 617, 918	2 9 71 361 178 809	86 82 98 125	2 5 1	4 6 8	13	2,047 18 296 1,785 1,617 3,224
	Total	1,120	3 880	654	2,068	980	341	8	18	14	8 957
Danar Metha	Chahi Dahri Narmot Magda Bhur	285 120 195 121 57	976 217 948 626 331	57 178 93	269	4 179 201 2°6 152	82 161 135 76	1 8 2	11: 2 1	30 9 5 1	1,359 739 2 655 1,455 817
DA	Total	778	8 098	429	1,480	742	454	6	14	45	7 020
АВАН КВАВІ	Chahi Abi Dahri Narmot Magda Bi ur	105 46 6 450 69 41	1,72 48	9 17	58 1 1 7 1,06° 5 36°	1,261 1,263	101	10	5 3		701 194 12 4,803 1,162 648
Ä	Total	71	3,08	0 32	1,695	1 558	126	14	8	8	7,520
	Chabi Abi Fixed Fluctuating Total	4	8 1	5 2	3 1 9 3 3 3 3 5	3	3				41 121 58 140 ———————————————————————————————————
	Anrmot Vingda Bhor Trixed	50	1 1 59 3	12 6 51 1	77 55 17 1 3 2 30 60 26	6 3 3 2 6 1,46	2				2,721 91 63 3,065 140
	Fluctuating Total	51	97 8	66 1	56 60	9 1 47	25				3 225
-	Chahi Nahri Abi		84 1,4	30 3 56 1 60	65 2 41 92 7 6		0 8	34	10]	3,895
	Fixed Flactuating	2	13 2 88		12 26	3 29 3	8 118 8	1		10	140
	Total	I		-	_	36 30	-			10	56,047
	Narmot Wogda Bhur		.22 2,5	089 9	779 12 48 271 3 3: 316 1,8:	23 6	12 390	2	1		
	Fixed	51	112 16,	1	991 18,7' 26	l	ì	İ	7:	87	50,617 140
	Total	J	200 16,	723 2,0	017 18,7	78 6 05	28 1,763	91	7:	2	50,757

AVERAGE OF THE FIVE YEARS 1901 TO 1905.

18	3	14	15	1	6]	17	18	19	20	21	22	23	24	25	26	27	28
	,	SEDES		1		Ì	Ì	Ì	1	-		· 	ĺ	÷]	'	İ	[
1		Taramira	Other othereds		Unanto	Onlons	Tobacco	Fruits	Vogetables _	Miscellaneous food crops	Fodder	Carrots and turnips	Others	Total area of erops harves- ted	Total area failed	Total area sown,	Remarks '
	64 155 10 564 95 25	2 225 138 58		1	1 3 2	31 6	21 1 8 1	6 1	22 25 1	1 14	3	18 5 2		2,446 4,110 107 14 899 3,076 898	107 111 25 4,747 920 311	3,996	chahi m m h r and narmo includes ch knot
	913	42	3	1	6	37	32	13	49	17	11	25	8	25,535	6,221	31,756	
	79 1 15 142 210 679	250 68:	1	1 5 19	2	24	88	14	23		1 7		12	2,310 19 319 2,018 2,107 4,635	201 12 79 650 1 036 2,378	328 2 668 8,143	
— 	1 139	1,00	5	25	4	24	89	, 60	23		10	27	12	11,408	4,556	15,964	
	78 13 236 194 176	8 20 34 32	0 .	1	1	35	4 6		30		3	24	13 1 1 1	1,594 839 3 100 1,997 1,822	187 149 1,587 1,112 896	3,109	
_	697	96	4	_1	2	85	40	9	30		3	24	16	8,852	3,931	12,783	
	52 9 1 446 146 97	(4 66 16 25	1 2 2	1° 		18	3 1	}		1	23		840 207 13 5,422 1,406 875	113 53 2,5 90 741 496	958 290 13 8,012 2,147 1,371	
-	751	31	84	5	18	2	1	8 4	31		1	24	2	8,763	4,023	12,788	
	13 13 13 13	3	11 -23	1	1 41 20 20			-	2		1 5	8	1 1	56 177 79 164 ———————————————————————————————————	24 59 8 127 135 1,502 65	80 236 87 291 378 4,467	
_	150	5	24 11	1	139	.	ε	<u> </u>		.	6	4	1	3,435	1,675 127	5,110 5,110 291	
	16	s -	25		13	-	8	_ _	.\:	2 1	6	4	2	3,599	1,802	5 401	
		5	7014	1	1	6 11 3	8 1:	1	0 6 2	5 1	7 1:	95	24	7,246 4 110 403	632 111 154	7,678 4,221 557	
	1	10	92 ₁			20		.	2	_	<u> -</u>	 -	1	1 357 164	261 127	1 618 221	
	1,5	26	103 678		-	20	-	5	2	1	7	<u> </u>	2	}	35°	1 nos 3n 679	
	6 9	27 1,	637 180	21 21				1 2	2	1		-	1	5 68° 7,785	3,574	12 553	
	i	12	500	33		_	_	_ _	55 1.	.]	2	_	i	164		76 200 29 1	
	36	87	,511	37	1	63 1	24 1	85 ¹ 8	16 12	t5] :	30 2	10	38	55,157	20 533	79,600	

STATEMENT X -MATURED ABEA FOR THE 21 LEARS, 1885-96 TO 1905-06

			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		{		
1	8	3	4	5 ~	6	7	8
			31	LATURED AREA		ı cultı	
Assessment Circle	Year,	Cultivated area	Kharif	Rabi	[ Total	Percentago on area culta vated	REMARKS
	1555 58	67,136	46,253	22,139	68 392	101 9	
	1896 87	67,164	46 486	18,951	65,387	97 3	
	1887-88	66,931	40,822	21,051	71,873	167 4	
	1899-50	66,894	49,369	82,869	82,218	1229	
	1edu 30	67,293	49,405	18,565	66,970	995	
	15% 91	67,348	37,794	37,455	75,249	1117	
	Average	67,125	44,565	27,778	72,343	107 7	
	1891 92	67,364	49,295	29 0 14	79,349	1103	
	1892-93	67,816	44,428	80 709	81,196	120 1	
	1693 94 .	67,685	41,971	<b>35 250</b>	77,221	114 1	
	1504 05	67,579	46,305	21,394	75,7(2	112 0	
	1895 98	67,354	39,922	25,999	65,921	⁰⁷ 8	
e.	Arctage	67,520	44,385	31,293	70 674	1120	
BATOAR	1670-97	67,115	41,385	20,216	67,601	100 3	
<b>A</b>	1897 98	63,892	47,628	30,543	78,171	123 3	
	1995 0)	67,604	38,247	15,50%	53,753	79 5	
	1899 69	67,392	18,054	13,233	\$1,287	464	
	1000-01	67,724	41,033	40,500	81,593	1205	
	Average	G6,70 ₀	87,270	25,211	62,451	93 6	
	1901 02	67,759	33,053	12 3 7 3	45 446	67 0	
	1903 Ci	67 793	49 004	23,673	72 877	107 5	
	1904 05	67,673 67 357	39,478	15,111	53,584 83 173	79.2	
	1005-06	67,207	47,433 11 790	35,740 25 535	67,334	1235 100-2	
	Avorngo	67,658	41 953	22,531	64 454	95 4	
	Aromago of 2, verm	67,_23	41 244	26,446	68 730	1022	
	Average of the years selected for	G7 C62	41,500	25,535	67,735	995	
	tin Preduce farimate	n5 253	19 979	14 217	34 195	96.9	
	166267	34 G°3	19 464	11 562	31 046	675	
	In wife and	33 125	13,233	15 992	29 21 <i>5</i>	87 6	
	1444.50	3 864	21,430	15,224	4 63 aF	3114	
	1- 200	33 867	21,497	9 218	30,716	ია <b>c</b>	
_	11. 211 "	~1 273	16 020	15 579	31,500	ora	
#127W	Average	33 605	18 320	13 517	31 710	912	
<u> </u>	*6 * *	35.024	22.01	11651	37,755	1077	
		20153	2206	17,451	59 517	107-7	
		नर १६६	16.215	18763	J₹ 0~5	104-8	
	•	27 273	20.318	17,6 7	37 031	101 9	
	n		171/	10,548	£9.783	£0·5	
	A** *Z*	20.523	ราธร	16461	19,-00	iros }	

### STATEMENT X-continued

1	2	3	4	5	6	7	<u></u>
			М	ATUBED AREA		oultı	
Assessment Circle	<b>У</b> ЕАВ.	Cultivated area	Kbarıf	Rabi,	Total	Percentage on area culta reted	Remarks,
<del></del>	1896-97	37,271	20,734	14,542	35,276	94 6	
	1897-98	87,986	24,266	12,498	88,764	988	-
	1898 99	88,451	19,564	8,618	28,182	73 3	
	1899 1900	88,576	18,384	5,843	19,227	498	
	1900-01	38,863	28,668	17,881	46,549	1197	
Branks—concluded	Average	88,229	21,323	11,877	83,200	86 8	
onch	1901-02	88,928	17,886	4,762	22,648	58 2	
Ĭ	1902 03	88,892	27,971	10,123	88,094	97 9	
HODE	1908 04	88,962	18,204	7,818	25,522	65 5	
m	1904 05	88,849	28,729	16,954	43,883	112 4	
	1905-06	88,624	23,891	11,408	85,299	909	
	Average .	88,891	22,936	10,113	83,099	85 0	
	Average of 21 years Average of the years selected for the produce estimate	36,809 38,699	20,699 23,892	13,046 11,408	83,745 85,300	91 6 90 7	
	1885-80	24,419	10,604	15,839	26,443	108 3	
	1896 S7	24,171	11,832	13,545	24,877	102.9	
	1887-88	23,994	6,807	17,802	24,609	102 6	
	1888-89	28,956	12,641	14,512	27,153	113 3	
	1889-90	23,727	12614	10,422	23,036	97 1	
	1890 91	24,035	10;821	13,825	24,646	102.5	
	Average	23,977	19,843	14,021	24,864	103 7	
	1891 92	24 542	14,540	12,425	28,965	109-9	
	1892-98	25,256	14,081	15,784	29,R65	118-2	
	1893 94	25,620	8,135	20,084	28,219	110-1	
	1894-95	25 870	12 415	17,152	29,567	115.2	
<b>#</b>	1895 96	25,691	8,680	11,066	19,726	78-8	
Panta Mithle.	Average	25,356	11,566	15,802	26,868	106-0	
	1896 97 1897 98	25,710	11,806	13,599	25,405	98.8 90:4	
٠,	1898 99	25,754 25,796	14,002 11,090	9,279 7,21 <b>4</b>	23,281 18,304	70-9	
	1699-1900	25.864	7,009	5,077	12,086	46.7	
	1900-01	25 884	17,075	12 910	29,985	115-9	
	Average	23 802	12,196	9 616	21,812	845	
	1901-02	25,808	8,351	4,011	12,882	47.9	
	1902 03	25,634	17,223	7,267	24,490	84.5	
	1903 04	25,768	10,724	5,618	16,842	63 4	
	1904-05	25,512	1 '	14,451	31,821	1247	
	1905-08	25,499	<u> </u>	7,364	12,504	490	
	Averago	25 685	·	7 742	19 504	75 9	
	Average of 21 years Average of the years celected for the produce estimate	25,167 25,761	11,545 - 14,145	11,663 8,952	23 414 23,000	£9-3 £3-0	

#### STATEMENT X-continued

1	2	3	4	5	6	7	8
			М	ATTRED AREA		a lti	
Auresament Circle	Year.	Caltivated area	Kharif	Rabı	Total	Percentago on area culti yated	REMIRES
,	1855 96	20,860	4,683	17,950	22,643	108 5	
	1890-87	20 837	8,650	11,746	20,396	97:9	
	1857-88	20,650	4,248	18,038	22,286	107 9	
	1898-89	20,565	11,179	11,952	29,161	1126	
	1659 90	20,612	10,726	9,636	20,362	8 60	
	1890-91	20,206	6,703	13,328	20,031	99 1	
	Avorago	20,574	8,701	12,946	21,247	103 3	
	1891 92	20,714	11,560	13,226	24,786	119-7	
	1892 93	20,814	7,305	16,024	23,727	1121	
	1893 94 ,	20,720	4,224	18,163	22 387	109-0	
	1894-95	20,735	7,797	16 731	24 528	1183	
	1895-98	20,741	5 754	10,432	16 186	78 0	
Олиак Киавг	Average	20,745	7,328	14,905	22,243	107-2	
R	1698 97	20,756	7 695	1872	21 557	, 103-9	
וועם	1997 98	20,775	9,603	11,635	21,143	101 8	
-	1898 93	20 937	7,539	9,002	16 601	75.7	
	1899 1900	20,855	4,116	4,276	8,392	40 2	
	1500-01	20 890	10707	13,037	23,744	113∙7	
	Average	20 822	7 931	10 356	18,287	87:8	
	1901 03	20 920	4,947	8,513	8,460	40 4	
	16 )2 03	20 916	10,606	10,459	21 085	100.7	
	10.5 01	20,922	9,038	6,431	16 369	78 2	
	Iraka	20,918	12,448	10 373	22,821	109 1	
	100° CB	20,897	4,041	5 470	9 511	15 6	
	Average Average of 21 years	20,914	8 376 	7,249	15,645	74-9	
	Average of the years selected for the	20,769	7 832	11,088	19 500	93.9	
•	pr drug estimate	20,913	P,730	8 763	18,493	₹8 4	
	18×3 hu	11 180	1,734	8,049	9 783	87 5	
	148, 47	11,016	2,529	7,255	0,783	888	
	1557 88	10 759	1,387	8,263	9 602	69·2	
	180.60	10,618	4,304	6 533	10,837	904	
	16.001	11 653	4 834	ฮ,รอา	10,637	913	
101		11 799	1781	8,0,8	10,639	50.5	
Carrot	261, 72	11 005	2,977	7,303	10 *00	91 5	
•	1F12 73	11 (3)	4,403	7,085	11,458 11 3^0	937 986	
	1000	11 600	3,511 3,040	8,251 8 164	10 575	913	
	Jest of	11 (51	อ _ก ระ	7,769	10,751	221	
	] 14 m	11 735	1,022	2,274	4106	864	
	farmin "	11 602	704	6 630	נו פנים	63.5	

Assessment Orcio	Yelb 1896 87 1897-95 1898 99	Caltivated area 11,658	Kharif 7	5 IATURED ARES		Poroonings on area culti	Rehares
	1896 87 1897-95 2898 99	11,658				tage on area culti	Remares
	1896 87 1897-95 2898 99	11,658	Kharif	abi		tago on area d	Rehares
	1697-95 2898 99			<b>A</b>	Total	Porcen vate	
	1697-95 2898 99		1,988	6,602	8,590	73 7	
	<b>.</b> 898 99	12,164	4,583	5,766	10,849	85 1	
- 1		12,308	8,581	3,121	8,702	54.5	
	1699 1909	12,381	603	446	1,040	85	
	1900-1900	12 393	4,862	6,783	11,645	94	
Curkhor—concluded.	Average	12,181	3,123	4,544	7,667	62:9	
conc	1901 02	12,230	2,197	679	2,876	23 5	
Į	1902 03	11,994	4,666	2,805	7,471	62 3	
HIEN	1903-04	12,031	4,728	2,222	6,945	57 7	
5	1904 05	12,134	6,026	5,509	11,535	951	
	1905-06	11,944	728	1,711	2,439	20 4	
	Average	12,067	8,668	2,585	6,253	518	
-	Average of 21 years Average of the verra selected for the produce estimate	11,740 12,156	3 1-0 4,494	5 410 8,599	8 550 8,093	72 8 66-6	
	1885-86	1,58 848	83 252	78 204	1 61,456	101 6	
Ī	1856-87	1,57 873	88,410	63,079	1,51,489	960	
	1897-88	1,55 659	66,449	91,136	1,57,585	101 2	•
	1888-89	1,55,191	98,923	81,120	1,80 043	1160	
	1689-90	1,57,157	98,076	53,644	1,51,720	965	-
	1690-91	1,57,652	73,319	88 845	1,62,164	103 9	
	Average	1,56,706	85,035	75,565	1,60,600	102 5	
	1891 92	1,59 278	1,02 702	76,641	1,79,843	112 6	
	1892 93	1,61,835	90,929	94,278	1,85,207	1144	
	1893 94	1,62,802	76,153	1,01,324	1,77 477	109.0	
	1694 95	1 62 938	90,224	808,83	1,78,532	109 8	
4	1895 98	1,62,270	78,423	82,359	1,35,783	83 7	
Total Tabble	Average	1,61 843	88 656	64,582	1,71,268	158	
CAE J	1896 97 1897 98	1,62,810	83,598	74,831	1,55,429	973	
To:	1695-99	1,60,071	1,00,087	69,621	1,69 709	1080	
	1899 1990	1,64 996	80,021	43,521	1,23,542	74.9	
	1930-01	1,65 068 1,6~,754	43,166 1,02 345	28 875	72,041	43 6	
	Aremgo	1,63 740	81,643	91 171 61 €04	1,07 516	1167	-
	1901 03	1,65 645	66 434	25 359	1,43,447	87-6	
	1:0:-03	1,65,431	1,09,470	54 527	1 63,937	55 <b>4</b>	
	1903-04	1,65,356	82 067	36700	1 15 707	718	
	1004 05	1,64,770	1,10,006	83 + 07	1,00 0 3	117.1	
	1502-08	1 61 371	75 599	£] 163	1,057	77-3	
	Average	16,115	EQ 7 -	77 201	1 08 35	81-2	
	Average of 21 vents Average of the vents a lected for the produce cet muse	1.61.7 % 1.63 .91	11,13	£473 £4,137	1,53,729 1,52,31	\$5.2 (\$0	

STATEMENT XI-CULTIVALING OCCUPANOT

8	er #	ចចេ	v coju	sunar to exan req sonabianl 42 ban	Re 4.4	3 6	38	5 6	63	2 8	7.4	21	20	6.9	10	0.0	4.6	40	40	0.9	48	4.4
16			- 1	no bieg sinor daes leid. L'auralon ar botsina este	Re 7,051	26,427	32,478	4,041	14,984	10,026	9,507	33,650	13,157	4,205	26,729	30,037	55	2,830	2,886	24,862	1,03,620	1,28,462
51			Cash rent	Total srea paying other cash rants.	1,603	166'9	8,594	720	6,585	7,306	1,291	8 r92	7,883	612	3,844	4,456	12	706	717	4,238	24,717	28,955
នួ				kand. roles with of without mali Total weed pijing at rovenus	1,237	4,043	5,280	289	2,088	3,277	195	1,022	1,217	73	1,028	1,100	"	1,086	1,091	1,802	10,166	11,968 28,955
12	1 PAID	-		baid attaer roban core latoT	1,686	2,569	4,255	195	1,747	1,012	272	1,436	1,708	300	2,445	2,754	21	2,042	2,063	2,483	10,239	13,723
20 (	I WBICI	-		By fixed amount of produce			61	87	•	63										160	F	1
10	AND AREA O I WHICH PAID			f nedt easl				4		4				<del>-</del>	80	2	<del>;                                     </del>		İ	-   	-	12
18	TEAND		Rent in Lind	f nadt esel bas f	502	-	32	¥	2	70	28	7	30	36	4	33			<u>'                                    </u>	122	23	149
11	OF REV		Rent	Land esel has §	<u> </u>	Φ	8		•			•			•		i 	5	<u> </u>	~	9	<u> </u>
91	DETAIL OF REYTS			produce or more	1,866	2,566	4,312	145	1,737	1,882	244	1,434	1,678	278	2,430	2,709	12	2,042	2,063	3,345	10,199	12 544
15				Zabī 13deZ	<u> </u>	<del></del>		<u> </u>		:	-		<u> </u>	<u></u>		<u>.                                    </u>						
				<b>=</b>		ted	<u>.                                    </u>		ted	:		ted	<u> </u>		ted	·	   	tod	<u>'</u>		ted	-
1.				Detail	Irrigated	Unurigated	Total	Irrigated	Untrigated	Total	Irrigated	Unirrigated	Total	Irrigated	Unirrigated	Total	Irrigated	Unirrigated	Total	Irrigated	Unirrigated	Total
13	-		1001	Total held by tonauts paying	1 2	23,587 U		8,745 I	17,886 U		5,851 1,	12,846 U		6,442 1	9)20e D	·	3,488 Ir	4,682 U		37,30£ Ir		<u></u>
13	ENT		۳-	without an addition in	909	4,256 3		1,317	1,942 1		1,083	1,708,1		3,159	3,754		1,611	2,063		8,549 37	19,722 68,007	
==	A YTH PATING RENT		Without right occupancy	Paying in kind with or	1 8			3,137	7,305		3,373	7,883		2,640	4,456		673	717			8,955 13	
101	MAYTA		Witho	Poling at revenue rates with ur without malikans	144		···-	1,659	3,377		706	1,217	<del></del>	808	1,100		936	1,094		7,181 14,180	1,969 28,955	
8			<del></del>	Paylog in kind with or mythout an addition in grand				<u>'                                     </u>			İ	. <del></del> -		<del>-</del>								
8	-	Авел состічатво вт	1943 right of occupancy	Paying other cash rents	1 1	385	· · · · · ·	787	468		F	80		İ						505	873	
1		ABEACO	1944	Paying at revende rates with or without malikans.	3,561	6,073		2,417	4,804	<del></del> -	838	1,518		15%	1,196		460	808		6,881	13,489	
8			30 00	Area cultiveted by toneute it or at a nominal rent.	838	1,004		06(	884		383	4.18		ä	280	*******	8	134		2,341	2,779 13,489	
0	-		<del></del>	area oultivated by owners.	27,786 14,164	7,287 43,098		8,048	30,058 30,278		4,800	25,641 12,747		5,949	20,910 11,105		3,238	7,210		36,205	1,4,82 94,036	
-				Total enltiration	27.786	7,287		17,413	30,058		1,94	25,541		12,674	20,910		0,911	13,026		75,857 38,205	1,4,81	
	,			Detail	To a of E	holdings		Number of	holdings Area		or of mu	holdínge Arca		Nambor of	nomings trea		Number of	og Ogninio		Number of	Aron	
-	- -				15			另		==	15	## ##		R	Ares		N A	Ares	<u> </u>	Na Na	Ar.	
				Tose		Last qued	attestation		ğ						۵۰			ይ		!	°	
				Olrei.	T			Ī						<u> </u>				·	Ì			
	- '			Araneament Olocke		Ben, ar	•		Bhader			Dahar Mitha			Dabar Khari		1	Chikaat ,			Total Induit	

### STATEMENT XII—YIELD DATA.

1	2		3		4	<u>_</u>	5		3	7	8
					Ex	PERIL	IENTS	Ав	SUMED	YIELDS	
Orrole	Crops		Soils		Area		Average yield in sers	At Settle	last ement	Now	Remarks
•	Jowar	Chahi Nahri Dahri Barani Bhur	•		}				320	240 240 240 200 100	Mr Channing's barani yield are for all barani in cluding bhur
	Bajra	Chabi Nahri Dahri Barani Bhur	n		}				240 {	240 240 200 160 140	
	Мако	Chahi Nahri Dahri Barani Bhur			}				400	320 320 200 200	
	Mang	Ohahi Vahii Dahri Barani Bhur	,		}		1		200	120 120 120 120	
	Mash	Cnahi Nahri Dahri Burani Bhur			}				200 {	120 120 120 120 120	
	Moth	Ohahi Nahri Dahri Bareni Bhur			?				240 {	160 160 160	
BANGAR	Chaula,	Chahi Nahri Dahri Baram Bhur	,		}	•			{	80 80	•
	E,	Chahi Nahri Dahri Barani Bhur			}				200	140 140 140 140 140	
	Cano	Nabri								640	
	Cotton	Chabi Nahri Dahri Barani Bhur				32 11	184	1>	160 {	200 160 260 160 100	
,	Whent	Chahi Nahri Dahri Barani Bhur		**	-	2.4	301		520 400 260	400 320 360 240 200	
	Barloy	Chahi Nahri Dahri Barani Bhur	1			2·8 4·3	867 598		600 440 320	450 400 400 300 240	
	Gram	Chahi Nahri Dahri Barani Bhur,		**	-	3-8 -8	367 504	15	329	. 07 9.00 9.00 2.00 0.00	
	Gochai	Chahi Nahri Dehri Berani Bhur		-			-		32) ( ]	603 620 620 620 620 620	

#### STATEMENT XII-continued.

1	2	3	4	5	6	7	8
			Farra	HENTA	Анасиги	TIELDS	
Circle	Crops	Boils	Area in	Average yield in seen	At last settlement.	Non	Nenthk.
-concld	Sarkon	Chahi Nahri Dahri Baraui Bhur	.0	<b>2</b> 03	) 200 { }	\$(4) 200 2 0 140 110	
Bangan—concid	Taramira	Chahi Nahii Dahri Barani Bhur	}		} 240{	* 2.71 100 100	ι
	Jowar	Chahi Abi and Dahri Barani Rhor	17	92	} 220 {	160 5 V 5 V	
	Bajra	Chahi Abi and Dahri Barani Rhur	r	107	240 {	2 to 2 to 11 to 1 to	
	Mairo	Clinhi Ahi and Dahri Barani Bhur	}		{	727 010 010 201	
	Мав	Chahi Abi and Dahri Barnii Bhur	}		2002	120 1_0 120	
	Mash	Obahi Abi and Dahri Barari Bhur	}		{	150 156 150	
	Moth	Ohahi Abi and Dahri Barani Bbar			245	160 160 160 160	
Butder	Chanla	Chahi Abi and Dahri Barani Bhur	}		{	50 80	,
Buv	Til	Chahi Abi and Dahri Barani Bhur	}		200 }	140 140 140 140	£
	Cotton	Chabi Abi and Dahri Barani Bhor	}		140	200 200 160 100	
	Whoat.	Chahi Abi and Dahri Barani Bhur	}	{	520 440 260	450 400 240 200	
	Barloy	Chahi - Abi and Dahri , Barani Bhor	92	286 }	600 450 280	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	Gram	Chalu Abi and Dahri Barani Bhur	17	280	320{	329 370 280 200	
	Goobni	Chabi Abi and Dahri Barani Bhur	}		320 {	440 360 280 200	
	Sarson	Chahi Abi and Dahri Barani Bhur	''14	178	200	200 200 160 160	

### STATEMENT XII-continued.

	····											
1	2		3	· · · · · · · · · · · · · · · · · · ·		4		5		6	7	.  8
						E	X PERI	MEXIS		Yesched Tesched	YIFLDS	
Círolo	Crops		Soils.			Area		Average yield in sers.	A Seri	t last lement.	Now—	Revibes.
Buyorn— concld	Tarantes	Chabi Abi and Dahri Barani Bhur				••	13	 180	}	240 {	200 200 160 160	
	Jowar.	Chabi Dahri Narmot Bhur					65	173	}	820	280 280 260 140	
	Bojra,	Chahi Dahri Narmot Bhur					2.2	 359	}	240	240 240 220 200	
	Maízo	Chahi Dahri Narmot Bhur	• •			}				400 {	320 320 240	
	Mung.	Chabi Dahri Narmot Bhur				}	••			200 {	160 160 160	
	Мавь,	Chahi Dabri Narmot Buur				}				200	160 160 160	
	Moth	Chahi Dahri Narmot Bhur				}				240 {	200 200 200	
7.	Chaula	Chahi Dahri Narmot Bhue .		<del></del>		}				160 {	120 120 120	
<b>Данай Мітна</b>	Til,	Chabi Dabri Normot Bhur	 	··			15	180	}	200 {	140 140 140 140	
<b></b>	Cotton	Chahr Dahri Narmot Bhur					3-8 3-8	252 133	}	200 {	240 240 200 120	
	Wheat	Chahi Dahri Narmot Bhur	**		•••		11 13 11	409 354 268	~~	000 024 028	560 440 250 210	
	Barloy.	Chahi Dahri Narmot Bhur					5	- 667	ما	080 520 360	69 480 860 240	
	Gram,	Chahu Dahru Narmot Bhur		44	· 					400	ະກ 400 ຊຽງ 240	
	Gochnt.	Chahi Dahri Narmot Bhur	••				2	<b>6</b> 50		110 {	450 440 320 240	
•	Rarmon	Chahi Dahri Narmo' Bhur	***	***			1.3	160		2∞{	200 200 160 160	
	Taramira	Chabi Pabri Varmo. Bhur		**	***	}	<b>-</b>			240	200 200 160 160	

### STATEMENT XII—continued

1	2	3	4	5	6	7	8
			Experi	ME/I4	Авацие	D YIRLDS	
Circle	'Gtoba	Soils	Aren in Acres	Average yield in sers	At last Settle- ment	Now	Remares
,	Jowar	Chabi Abi and Dahri Barani Bhur	21	200	320 {	360 320 260 200	
	Bajra	Chahi Abi and Dahri Barani Bhur	}		240 {	240 240 200	
	Maízo	Chahi Abi and Dahri Barani Bhur	}	,	400 {	240 200	(
	Mung	Chahi Abi and Dahri Barani Bhur	}		200 {	160 160 160	
	Mash	Chabi Abi and Dahri Batani Bhur	}		200 {	160 160 160	
	Moth	Chahi Abi and Dahri Barani Bhur	{		240 {	200 200 200	
	Obaula	Chahi Abi and Dahri Baraui Bhur	}		{	120 120	
Kuarı	Til	Chani Abi and Dahri Barani Bhur	}		{	140 140	
<b>Д</b> апав Б	Cotton	Chahi Abi and Dahri Barani Bhur	'1	209	200 {	260 240 220 140	
	Who t	Chahi Abi and Dahri Barani Bhur	11	802	0(0 400 320 {	520 400 320 240	
	Barloy	Chahi Abi and Dahri Barani Bhur	4 3	583	680 440 } 360 {	640 480 -400 280	
	Gram	Chabi Ahi and Dahri Barani Bhur	13	404	400 {	480 440 400 240	
	Gochm	Chahi Abi and Dahri Barani Bhar	26	432 448	400 {	520 Abi 440 Dahri 380 360 240	
	Sarnon	Chabi Abi and Dahri Barani Bhur	2	188	200 {	200 200 160 160	
	Taramira	Chahi Abi and Dahri Barani Blur	}	,	240 {	200 160 160	
CHIRYOT	Jowar	Chahi Abi and Dahri Biiani Brur	}		350 {	280 240 160	

### STATEMENT XII—concluded.

		<u> </u>		1 .	7		1 .
1		8	4	5	-   - G	7	s
			Exper	UMENTS	Assume	D YEILDS	
Circle	Crops	Soils	Area in Acres.	Average yield in sers	At last Settle ment,	Now.	Remarks
	Bajra	Chahi Abi and Dahri Barau Bhur	}		160 {	240 160 160	
	Maizo	Obahi Abi and Dahri Barani Ehor	}		400 {	200	•
	Mang	Chahi Abi and Dahri Barani Bhur	} .		{	160 120 120	·
	Mush	Chahi Abi and Dahri Barani Bhur	<u>}</u>		{	120	
1	Moth	Chahi Abi and Dahri Barani Bher	} .		240 {	160 160	
	Chaule	Chabi Abi and Dahri Barani Bhur	}		160 {	80 80	1
Exor—concluded	Ē	Chahi Abi and Dabri Barani Bhur	} . [		200 {	140 140	
Онткиот—с	Cotton	Chahi Abi and Dahri Rarani Bhur	8	309	160 {	200 140 100	
	Whoat	Chahi Abi and Dahri Barani Bhur	•		600 400 } 280	320 380 280 200	
	Barloy	Chnbi Abi and Dahri Barani Bhur	14	514	600 440 } 820	400 360 280 240	
	Gram	Chahi Abi and Dahri Borani Bhur			820 {	320 240 200	
	Gochní	Chshi Abi and Dahri Barani Bhur		,	320 {	360 280 200	•
İ	Barson	Chabi Abi and Dahri Barani Bhur			200 {	200 160 160	
*******	Toramice	Chahi Abi an Dabri Baram Bhur			203 }	163 160	

	2	8	4	Б	6	7	8	9	10	11	12	13	14	15	16	1
										Кпави	· 					
	Detail.	Jowst	Bájrá	Marzo	Other cereals.	Mung	/ Másh	Moth	Guar	Ohnulo	Othor palses	זיו	Sugarcano	Cutton	Indigo	
2 8 4 5 6 7 8	Average area in acres Yield per acre in sers or cash value Total yield in sers Price in annas per maund Value of grain Value of straw Value of grose produce Government share at 163 per cent. Rate per acre harvested	6 240 1,440 20 45 20 65 †7	11 2	6 320 1,920 22 66 66 11 1 13-4	20 20 20 3 180	•	1 120 120 32 6 6 71	,		•		1 140 140 60 18 13 2		41 200 8,200 64 820 820 †123	•-	
1 2 3 4 5 6 7 8 9	Average area in acres Yield per acre in sers or cash value Total yield in sers Price in annas per maund Value of grain Value of straw Value of gross produce Bate per acre of the Government share. Total value of Government share	16,080 20 502 226 728 †0 14-0	240 4,560 23 164 28 192 1 7-0	320 43,200 22 1,485 1,485	1,070	3 120 360 30 17 1 18 †0-13 0	5,880 32 294 18 312 †0-4-0	42 160 6,720 231 231 252 0 3-0	25 Rs 3 75 70 *	5 80 400 20 12 1 1 13 †		13 140 1,820 60 171 171 2-8-0	640 401,280 45 28,315 28 215 †2 0-0	160 429,280 64 42,928 42,025 †2 10 0	1,240 1,240 1,240 1 12 0	
1 2 3 4 5 6 7 8	cash value Total yield in sers Price in annas per maund Value of grain Value of straw Value of gross produce	21,840 20 68: 30' 98:	200 0 4,200 0 23 151 7 26 9 177 9 88	3		1 120 120 80 6 6 71	120 32 6 6		1 Rs 3			6 140 840 60 79 79 20 3 5-4		25 200 5,000 64 500 500 †112 4-7 8	<b></b>	
DANAMA	Average area in acres Yield per acre in sers of cash value, Total yield in sers Price in annas per maund Value of grain Value of straw Value of gross produce Government share at 21 par cent Rate per acre harvested	1,366,40 2 42,70 19,21 61,91	0 160 0 2,571,840 0 23 0 92 425 5 16 074 5 108,498 0 23,100	200 26,600 3 22 5 914 914	Rs 10 1,960 1,960 490	93,960 80 4 404 294 4 696 †734	120 30,720 32 1,536 4 96 3 1 632 4 †256	102 160 30,720 22 1,056 96 1,152 176 0 14-8	6,918 6 918	3,040 20 95	10 10 †2	101,220 60 9,489 9,489 2 372	`,	3,913 160 626 080 64 62,608 63,608 †14 087 8-9-7		
мана	1 Average area in acres 2. Yield per acre in aers o cash value 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 6 Government abare at 2 per cent. 9 Rate per acre barvested	4,90 2 16 22	00 308,98 20 23 53 11 10 59 1,03 22 13,03 33 2,770	0 200 0 600 3 22 4 21 1 21	20 Rs 10	6 960 320 22 840 †5	120 120 120 32 6 6 6 6 2 7 1 †1	41 160 6 560 22 225 20 245 †37	1,098 1,098 *	2,000 2°		16 140 2,240 60 210 210 52 8-4-0		95 100 9,500 64 950  950 †214 2-4-1		
LIRC	1 Average area in acres 8 Total yield in eers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Total value of Government share 9 Rate per acre harvested	44 08 19,83 63,91	50 2,889,82 20 2 32 103 85 37 18 08 19 121,91 38 25,94	0 72,820 3 2,486 1 2,486	3,070 3,070 658	101,400 30 4,753 31' 5 070 †700	36,960 82 8 1848 7 114 0 1982	22 1,512 137 1,649 †221	8 094 8,094	68 5,440 20 170 16 186 †27	50 50 50 †3	759 106,260 60 9 952 9,962 2,478 3-4-3	C27 401,280 45 28,215 28 215 1 607 2 -9-0 Whole p	6,757 1,078,060 64 107,806 107,806 †21,579 8-3 1	ducted	

^{*} Whole produce deducted † Value of the Government

<u> </u>	2	8	4	1	5	6	7	8	9	10	11	12	13	14
1	-		<u></u>			•	·	<del></del>	Кнаві	F				
Boilg.	DETAIL	Jowar		Bajra	Maizo	Other cereals	Múng	Másh	Moth	Guar	Chaula.	Til	Cotton	Fodder
Спант	1 Average area in acres 2 Yield per acre in sers or cash value 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of grain 7 Value of gross produce 8 Government share at 162 per cent 9 Rate per acre harvested	28 84 2 2 1	10 20 26 12 38	1 240 240 23 9 2 11 2	1 320 320 22 11 11 2 2 0-0	10 10 10 2 2 0 0	:		4 160 640 22 22 2 24 †3	.,	1	1 140 140 60 13 13 2 2-0-0	97 200 19,400 64 1,940 1,940 †291 8 0-0	Rs 10
An	1. Average area in acres 2 Yield per acre in sers or cash value 3 Total yield in sers 4. Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government share at 25 per cent 9 Rate per acre harvested			15 240 8,600 23 129 22 151 32 2-2 2		10 10 10 2 2 0-0	1 120 120 30 6 †1 1 0-0		1 160 160 22 6 6 †1	3 *			3 200 800 64 60 60 †13 4 5 4	R _F 10
ДУШЕТ	1 Average area in acres 2 Yield per acre in sers or cas value 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gress produce 8 Government share at 25 produce cont 9 Rate per acre harvested	18,	65 280 200 20 569 256 825 121	96 240 23,040 23 828 144 972 207 2 2 6	640 22 25	90 22	†8	1 120 32 6 6 †1	480 22 3 16 3 17	Rs 3	•	8 1,120 60 105 105 26 8-4-0	41 200 8,200 64 820 820 †184 4-7 10	370 370 370
in a c	1 Average area in acres 2 Yield per acre in sers or car value 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government share at 25 per cent 0 Rate per acre harvested	1,65 5 2 7 per †1	825 200 ,000 20 ,156 ,320 478 1,096	3,181 160 5,00,966 27 18,007 3,181 21,13- 4,501 1,70	7,690 26 1 26 1 6	R= 10 4 440 4 440 6 110	120 31 090 30 1,457 97 1,554	3,480 3; 17- 1 18- †2	16 15,52 2 2 4 53 1 4 5 58 9 †8	Rs 3	6,400 20 200 200 200	140 13,880 60 1,298 1,298	160 1,36 480 64 18 648 18,648 †3,071	1 1
	1 Average area in acres 2 Yield per acre in sers or containe 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government share at 25 cent 9 Rate per acre harvested	per per	285 100 8,500 20 891 400 1 291 †159	10 49 14 1,469,02 2 52,79 9 18 61 97 13,19	0 40 3 12 11 13	14 15 14 15 3 3	99,840 99,840 0 4,886 31: 0 4 99: 7 †78	1,56 1,56 3 7 2 2 8 1,56 1,56 1,56 1,56 1,56 1,56 1,56 1,56	77,60 28 2,60 5 24 33 291	0 Rs 3	60,480 20 4 1,890 189	6,580 6,580 617 617 154	71,100 64 7,110 7,110 †1,600	3,650 3,650 †
	I Average area in acres Total vield in sers Talac of grain Value of straw Value of gross produce Total value of Government si Reference of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the	. 21	1 178 2 540 6 642 2 958 9,630 1,380	1,900,86 71,76 12 45 84 2 17,95	30 9,0 31 3 30 11 3	40 11 70 11 70 78 17	6,60 3 †1,03	0 5,10 4 2: 2 2: 5 2: 7	50 94 40 58 3,2 16 2 74 3,5 43 †5	15 9,72 94 9,72 39 9,72 41	3 2,080 2,080 209	21,700 2,03 2,03 3 50 8 8 8 8	23,578 23,578 23,578 23,578 6 †5,158	10 540 10 540

* Whole produce deducted † Value of the Government

15	16	17	18	19	20	21	22	23	24	25	2	6 27	7   28
,							Rabi	t.					
Gardena	Others	Whont	Barloy	Gojra	Gram	Goohni	Pulses	Sargon	Taramira	Gardons	Podder	Others	Total,
77 Rs. 25	300 300 50	1,42,080 3, 7,104 883 7,986	9,52 8( <i>d</i> ) 22 32,752 4,460	78,300 27 8.300	960 960 23 34	886 25 38	19	5 20 15,80 4 5 -,11	9 0 0 6 5 1	00 32 30 5	23 25 Rs	20 3,1 20 3,1	156 2,446 20 12,13,000 120 50,868 5,686
4 2-3	354	4-0-0	3-4-3	8-12-9	1-10-8	3-0 (	1-11-	1	1	8 4-2	-9 	8-5	· ·
		111	4 440 1,730 22 60 8 63 †14 3 8 0		5 320 1,600 23 58 65 13 †13	8,240 28		200 200 14 14 †2					44 11,280 516 50 568 118 2 9-0
	20 15 30 8 4-0 0	21,600 32 1,030 127 1 207 270	32 120	35 420 1 4700 620 689 155 4-6 10	62 320 19,840 23 713 62 775 †169 2-11-7	71 860 25,560 28 1,119 1 237 279 8-14 10	15 15 15 †2 2 0 0	15 200 3,000 45 211 211 †26	8 200 1,600 32 80 80 20				609 1,71,800 7,898 933 8,832 1,768 2 14-0
19 Rs 15 295 295 71 3-11 9	34 Rs 10 340 35 26-0	448 240 1,06,320 32,5,916 623 5,934 1,329 3-0 0	992 800 2,97,600 22 10,230 1 395 11,625 †2,430 2-7-3	261 250 67,560 27 2 862 318 3,180 715 2-11 10	1,150 280 3,22 000 23 11,672 1,006 12,578 †2,749 2-6-3	539 290 1,50,020 28 6,673 707 7,310 1 651 3 1-0	17 Rs. 15 255 255 142 2 7 6	352 160 56 320 45 3,960 8 960 †495	330 160 52 800 82 2,647 2,840 660 2-0-0	81 Re 15 465 465 116 8 11 10	10 10 10	9 Rs 15 135 34 8-12-5	19,34,280 94,131 9,676 1,03,807 19,938
20 Rs. 15 300 800 75 3-12 0	Rr. 11	327 200 65,400 32 3,270 353 3,653 817 2-8-0	1,406 240 3 87,440 22 11,606 1,582 13 182 †1,755	218 220 46,860 27 1,978 219 2,197 494	200 1,92,000 23 6,900 600 7,500 †1,639	309 200 61,800 25 2,704 290 2,994 676	9 Rs. 10 90 90 †15 1-10-8	692 160 1,10,720 45 7,785 7,785 1973 1 6-6	664 160 1,08,240 32 5,312 5 312 1,325	29 Rs. 15 I 435 435 109	70 70	19 Rs 15 285 285 71	21,299 21,299 27,35 540 123,553 13,403 136,956 25,778
46 	1,160 1,160 255 2-10-4	1,120 3,35,400 16,770 11,465 18,738 3,600 3-3 5	4,063 16,21,720 55,746 7,602 63,348 110,647 2-9 11	654 2,07,720 8,939 973 9,936 1,915 2-14-10	2,180 5,36,400 19,277 1,676 20,953 †4,574	930 2,42,400 10,605 1,135 11,740 2,647 2-13-7	40 555 555 <del>18</del> 1 2-0-5	1,139 186,040 13 081 13,081 †1,589 1-6-4	1,005 161,240 8,062 8,062 2,013 2-0 0 3	8 12 2 83 1 475 1,475 321 1-13 11	10 100 100	3 11 9 3 540 3 540 625 3 6 4	1-3-4 85 300 60,65,400 276 969 29,750 306,719 55 650 1 9-3

scare remaining after making the deductions detailed in paingraph 31

				4	5	6	7	8	9	10	11	12	13	14
_	1 7	2	8	4	"		•	1		HARIF		!		'
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		DETAIL				enle								
	1	22111				100	<b>X</b> 0			<u>.</u>	乜		i o	der
	<u> </u>		Jowár	Ва́јго	Maixe	Other cerenls	Múog	Másb	Moth.	Guår	Chault	Till	Cotron	Fodder
_	Boil	1 Average area in acres			-   -			-	-	1		4	80	16
		, , , , , , , , , , , , , , , , , , ,	280	240	320 R	в 10			. \	Rs 3		140	240	Rs 10
		2 Yield per acre in sers or cash value 3 Total yield in sers	840	480	3,520		ł					560	19,200	
		4 Price in annas per maund	20	28	22							60	64	}
	HT,	5 Value of grain	26	17	121	20		1		8		52	1,920	160
	Čņaнt,	6 Value of straw	12	8		)				- 1				
	-	7 Value of gross produce	38	20	121	20			1	3		52	1,920	160
		8 Government share at 161 per	†4	8	20	8	. \			*		Ð	†288	•
		cent 9 Rate per acre harvested	1 5-4	1.8.0	13 1	180		ļ				2-4-0	397	
ب ب		1 Average area in acres	93	832	1	2	25		7	21	2	32	173	86
		2 Yield per acre in sers or cash	280	240	820 1	Rs 10	160	160	200	Rs 3	120	140	240	Ru. 10
		value 8 Total yield in sers	26,040	79,680	320	1	4,000	480	1,400		240	4,480	41,520	
		4 Price in annas per maund	- 20	23	22	ļ	80	32	22		20	60	64	
	181	5 Value of grain	814	2,863	11	20	188	24	48	63	8	420	4,152	360
	-Дава	6 Value of straw	866	498			12	2	4		1			.
		7 Value of gross produce	1,180	3,381	11	20	200	26	52	63	8	420	4,152	860
		8 Government share at 25 per cent.	†178	716	8	5	†81	74	8	*	ţ1	105	7934	*
		9 Rate per acre harvested	1 14-7	2 2 6	3 0-0	280	1 3 10	154	1 2-3		0 8-0	3 4 6	5-6-5	
	<del></del>	1 Average area in acres	2,323	3 634	21	71	548	89	178	649	48	476	1,176	712
		2 Yield per sore in sers or cash	260	220	240	Rs 10	160	160	200	Rs 3	120	140	200	Rs 10
		yalue 3 Total yield in sers	603,980	799,480	5 040	1	87,680	14,240	84,600	İ	5,760	86,640	235,200	1
		4 Price in annas per maund	20	23	22	}	. 80	82	22		20	60	23,520	7,120
	Barani	5 Value of grain	18,874	28,731	173	710	4,110	712	1,189	1,947	180	6,248	20,020	,,
	æ	6 Value of straw	8,493	4,997		İ	274	44	108	1,947	18 198	6,248	23,520	7,120
		7 Value of gross produce	27,367	33 728	173	710	4 884	756	1,297	1,941	†30;	1,562	†5 <b>2</b> 96	*
		8 Government share at 25 per	1 1	7,183	43	178	†685		†198 1 2 4		0 10 0	8-4 6	4.8 1	
		9 Rate per acre harvested	1 12.5	1 15 8	2 0-9	2 8 1	1 4 0 175		118	377	₈₂	1 25	235	50
		1 Ауегаде игел 10 погев	140	2 097 200		Ra 10	160			Rs 3	120	140	120	Rs. 10
		2 Yield per acre in sers or cast value 8 Total yield in sers	18,160			10.70	28,000				9,840	8,500	28,200	
		4 Price in annas per maund	20	28	1		80	1 1			20	60	64	
	Rung	5 Value of grain	411	15,072		170	1,81,2	16	811	1,131	308	328	2,820	500
	Ė	8 Value of straw	185	-	<b>\</b>		88	1	74		31			
		7 Value of gross produce	596	17,693		170	1,400	17	885	1,181	889	328	2,820	500
		8 Government share at 25 pe	r †90	3,708		42	†219	†8	†185	*	<del>†</del> 51	82	†635	*
ŗ		cent 9 Rate per acre harvested	0-15-4	1 12 9	·\	281	1-4-0	180	124		0-9-11	3-4-6	2-11 8	814
		1 Average area in acres	2 518		1	1		1	1		i i	587	1,664 824,120	J.,
		8 Total yield in sers	1 '	1 299,040	1	1		15,040	1	l	15,840 496		ī	8,140
	1	5 Value of grain 6 Value of straw	20,12	1	1	920	1	1 .	1	l	50 50		02,222	
		6 Value of straw	9,05	1	Į.	5 920	5,984	1	l .				82,412	8,140
		7 Value of gross produce	29,18 int †4.40	1	1			1			†82		<del>†</del> 7,153	*
		8 Total value of Governme	1 12-		1	1	i '	1	1		0 9-11		4-4 9	
		9 Rate per nore harvested	1 1 12	1			1 7-	<u> </u>	ı -		·	T Whole	produce	deducted

* Whole produce deducted
† Value of the Government

15	16	17	18	19	20	21	2:	2 2	3   2	. 1	0- 1		<del></del>	
				-	<del></del>			ABI		-	25	26	27	28
		-			- -		-1 -		<del></del> -				,	
Опгдопв	Others	Wheat	Barloy	Gofra	Uram ,	Goohní	Pulsos	Ватвол	Tkramíra		Gardons	Fodder	3r.6	
16	ı	28	5 97	6 5	59	5	4 - 2	80 8	78 ×	4	_	-	Others	Total
Rs. 28	5 Rs 20	56 159,60	1	1	_	i	SO Re	12	200	j	s. 25 R	, 24 s 10	99 Re 20	1
•		8:	1	1		. 1	28	15,	800	800				904,780
<del>1</del> 00	520	.,	1	1,54	1			50 1	45	32 40	- 1		·	•
400	520	931	1	1	1	e	8			40	750	240	1,980	40,289
67	1	8,915 <b>1,</b> 330		1	1 '	1	3 4	50 1,0	97	40	750	240	1,980	4,246
4-3 0	i i			i '	'-	1	4 1	50 †	91	.1	125	- !	380	44,535 6,308
1				57			-	-	2-8 1-1	20 4-2	8-5		8-5-4	8-9-5
Rs 15	Rs. 10	440	<b>4</b> 80	460	]	1 -	-	1		84	2		1	1,570
		<b>52,</b> 800	,	26,220	į		!	2,60	. 1	00 Rs	15	] ]	Re 15	_
15	30	32 2,640		27	23	28	3	1		00) 32				508,300
		309	4, <b>4</b> \$\$ 612	1,106	1,452	1	1	18	1	1	10		, ]	
15	80	2,949	5,100	123 1,229	126 1,578		ĺ						15	23,866 2,422
4 0 0	8	660	<b>†1,0</b> 66	276	1345	, -	-0.	1	1	o 3	o		15	25,788
4-0-0	2 10 9	580	8 14-0	4 13-6	3 6-8	4-13 1	†25 2 •(	,		1	В		4	5,476
Rs 15	Rs 10	316 250	1,771	266	1 826	407	21	1 12	·	J	<b></b>	4	-0 0	3-7-10
	- 1	, 85,453	360 637,560	820 85,120	360	320	Rs 15	160	1	1 .	1		5	15,070
		82	22	27	477 360	130,240	, ]	68,800	ł	1		Re	15	
120	450	4,424	21,916	3,591	23 17,155	5 698		45	32				0,	427,700
120	450	518	5 828	898	1,492	610	360	4,838	4 876	105			45 1	156,592
30	112	4,942 1,106	24 905	3,9%	18,647	6 308	880	4 838					- 1	19,942
8-12-0	2710	3 8-0	†5 205 2 15 C	898 0-0	4,074	1,424	160	1605	4,876 1,094	105	. ]		45 1	76,534
3 Rs 15	8	57	382	46	3 1-2	3-8-(	2 8-0	1-6 6	2-0 0	26 8 11-5	.	3 10		84,068
13	Rs 10	200	540	220	179 240	152 240	1	176	329		-		-	4,605
		11,400	91,651	10,12'	42,08(	36,480	Rs 15	160 28,160	160				1.	2,003
45	80	570	9,151	27	23	25		45	52 640 32				7,9	9,460
45		67	430	427 47	1,544	1,596	15	1,980	2,632	"				
11	80 20	637	3,581	474	134	171						••	j	4,919
3-10-8	2-8-0	2-7-10	†748	167	1367	399	15 72	1,980	2,632				1	3,849 3,768
28	89	778	3,401	2-5-3	2010	2-10.0	2-0-0	†245 1-6-7	658 2-0-0				j	,727
590		312,250		428 159,040	1,611	742	65	697	964	39	_			0 10
	1,050	15 614	52,369	6,667	£62,720 £0,223	247,400		115 160	157,760	98	28	103		000
553	1 050	1,829	7,142	739	1,758	10,824	975	8 126	7 559	885	_	2,040	5,638,	1
112	227	3,238	50 511 110 631	7 406	21,93]	11,983	975	5 098			- 1		255,3 30,4	-
	2 12.3	428	3-20	1 53S	14,797	1	†187	7967,	7,888 1,069	1		2,040	285,6	
odder o remain	ripg alte-	maken al	ded ctions d		2-15-5	3-10-2	21.8	1-6-2	1	159 <b>*</b>		345	53,5	79
								ſ				3-5-7	2.5	

1	2	3	4	5	6	7	8	} ⁰	10	11	12	13	14
•				·			<del></del>	· <del>'</del>	KHARIP	<del></del>	· <u></u>		-'
Soif	DETAIL	Jowar	Вајга	Maize	Other ceroals	Мапв	Mash	Moth	Gasr	Chaula.	T.1	Cotton	Foddor
ORARE	1 Average area in acres 2 Yield per acre in sers or cash value 3 Total yield in sers 4 Price in acres per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government share at 163 per cent 8 Rate per acre harvested	360 20 11 8								c		26 1,04 6 10 10 †10	0 4 •
ABI	1 Average area in acres 2 Yield per acre in sers or cash value 3 Total yield in sers 4 Price in annus per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 G vernment share at 25 per cent. 8 Rate per acre harvested	24 320 7,650 240 240 108 349 †51	16,560 23 595 103 688 149		20 20 20 2 8 0	500 30 88 2 40 10	160 160 32 8 1	800 24 24 37	24			240 3,840 64 384 384 256 767	R• 1
рушт	1 Average area in notes 2 Yield per acro in sets or cash value 3 Total yield in sets 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of grass produce 8 Government share at 25 per cent. 9 Rate peracre harvested	5 320 1,600 20 50 23 73 †10	3,360 23 121 21 142 80		•	1 160 160 30 8 1 9 †1							
Superior Barini	1 Average area in acres 2 Yield per acre in sers or cash value 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government share at 25 per cent 9 Rate per acre harvested	1,524 280 4,26,720 20 13 335 6 001 19,336 †2,634 1 13-9	5,89,040 23 21 528 3 744 25 272		970 970 243	- 1	160 10,080 32 504 92 688	200 17 200		14 120 1,680 20 52 5 57 †9	36 960 60 3 165 3,465 866	0 05 040	1,036 Rs 10 10,350 10,360
Barus	1 Average area in acres 2. Yield per acre in sers or cash value. 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of grain 7 Value of gross produce 8 Government share at 25 per cent. 9 Rate per acre harvested	64 200 12,800 20 440 180 580 †85	1,71,800 23 6,174 1 074 7 248 1,544	1 200 200 22 7 7 7 2	10	56 160 8,960 30 420 28 448 770	160 640 82 32 2 84 75	49 200 9,600 22 337 31 368 †56	270 Rs 3	97 120 4,440 20 189 14 153 †23	9 140 1,200 60 / 118 118 80 8 5-4	151 140 21,140 64 2,114 2 114 †474 8 2-5	SS Rs 10
Total of the circle.	I Average area in scres 8 Total yield in scres 4 Price in annas per maund 5 Value of grain 5 Value of straw 7 Value of gross produce 8 Total value of the Government share 9 Rate per acre harvested	1 618 4,49,160 20 14 036 6,317 20 353 †2,982	23 25 418 4 942 83,360 7,105	15 3,560 22 123 123 81 2 1-1		230 36,800 30 1,726 115 1 841 †287 1 4 0	68 10,880 32 544 35 579 †90	139 27,800 22 956 87 1 04 3 †160 1 2-5	1,104 3,312 33 12	51 6,120 20 101 101 110 210 †32	273 38,2 °0 60 9,583 3 583 696 3.4-6	1,513 3,21,260 64 32,128 32,126 †7,222 4-12-4	1,087 10,670 10,670

* Whole produce deducted † Value of the Government

15	16	17	/ 18	<i>f</i> }9	20	/ 21	25	2 23	24	1	25	26	27	/ 29
	<del></del>		1	ł.			Ra	ВІ						,
Gardons	Others	Wheat,	Barloy	Gojra,	Gram	Gochnř	Pulsos	Вагвоп	Taramira.		Fodder	Gardeny	Othors	Total,
1 Bs 2: 87: 6: 4-3-2	5 Rs 20 5 240 5 240 6 40	64,600 8: 8,730 8.20 8,050 8,050	640 8,52,000 2 22 0 12,100 1,650 0 13,750 †1,815	586 20,886 27 881 98 979 147	1,95 7 2 8 7 9 7 1	2,60 23 29 29 11 6 1 15 12 0 1	2 8 9	10,4	45 31 31 61	1	240 240 240		840 840 140 8-5-4	4,43,; 18,5 2,0 21,0 2,8 8-4
Rs 25		400 400 18,400 32 920 108 1,028 230	480 22,080 22 759 103 862 †171	6 440 2,640 27 111 12 123 28 4-10-6		18,489 3 29 3 808 3 87 4 895 3 209	0 8	1,80 1,80 12 12 †1	00 8 55 3 77 4 6 1	4 000 000 32 40 00 00			20 20 5	3,17,30 5,10 5,59 5,70 1,16 8-5
	,	2,400 32 120 14 134 30		1 400 400 27 17 2 19 4	1 440 23 13 1 14 †3	380	.] [	200 200 45 13 13 72	0					9,980 409 69 478 97 2 15 0
225 225 56 8 11 9	89, 15 595 585 146 3 11 11	519 320 1,66,060 32 8,304 973 9,277 2,076	2,292 400 9,16,800 22 91,515 4,298 35,813 †7,091 8 1 6	232 360 89,520 27 3,524 392 3,916 881 3 12 9	1,479 400 5,91,600 23 21,261 1,849 23,110 †4,784 8-3 9	1,424 360 5,12,640 28 22,428 2,403 24,831 5,607	180 180 180 †30 2 8-0	592 160 94,720 45 6,660 6,660 †833	252 160 40,820 32 2,016 2,016 504	Rs 1	1	5 Rs	38,8 40 1,8 10 2,0 70 3	22,840 21,176 9,835 1,011 8,478
Rs 15  60  60  15  3 12 0	80 80 20 2-8-0	41 240 9,840 32 492 55 550 123	276 280 77,280 22 2,657 362 3,019 †598 £ 2-8	49 260 12,740 27 587 60 597 134 2 11 0	200 240 48,000 23 1,725 150 1 875 †388 1 15-0	78 240 18 720 28 819 88 907 205 2 10 0	Rs 10 40 40 17 1 12 0	97 160 15,520 45 1,091 1,091 †186 1 6-5	128 160 20,480 32 1,024 1,024 256 2		6-10-3		2 2 2 0 4,33 0 19, 2, 21, 4,	486 047 533 180
695 695 140 4	905 905 206 3 7 10	717 2,51,320 8- 12,566 1,473 14,039 2,914 4-1-0	3,164 13,05,160 22 47,031 6,413 53,444 19,675 3 0-11	5,070 564 5 634 1,194 8-11 0	1,787 6,65,200 23,906 20,79 25,985 5,373 3 1-6	1,558 5,53,960 25 24,236 2,597 20,883 6,050 3-14-4	220 220 220 737	751 1,22,620 45 8,622 1,048 1 6 4	384 61,600 32 3,080 3,080 770	25 250 250 *	25 595 595 103	61 1,120 1,120 210 8-7-1	18 4 48,27,6 2,25,1 24 6 2,49,8 46,7	193 500 71 41 12 75

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1	2	8	4	5	6	7	8	9	10	11	12	13	14
								Кна	RIF				
Soil	Detail	Jowar	Beira	Maizo	Other cereals	Mung	Mash	Moth	Guar	Оћапја	Til	Cotton	Пошр
ОпАЦ	1 Average area in acres 2 Yield per acre in sers or cash value 8 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government share at 183 per cent 9 Rate per acre harvested	1			•					{			
Anı	1 Average area in acres 2 Yield per acre in sers or cash value 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government sbare at 25 per cent 9 Rate per acre harvested	6 280 1,660 20 52 24 76 †11	2 240 480 23 17 3 20 4 2 0 0						1 Rs 3	t	1 140 140 60 13	20 3 20 3 †5	
DAURI	1 Average area in acres 2 Yield per acre in sers or cash value 8 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government share at 25 per cent 9 Rate per acre harvested	17, 280 4,760 20 149 67, 216 †32	7 240 1,680 23 60 10 70 15		30 30 30 8 2 10 ⁴ 8	1 160 30 8 1 9 †1			1 Rs 8		2	60 400 60 64 66 40 66 9	
BARANI	1 Average area in acres 2 Yield per acre in sers or cash value. 3 Total yield in sers 4 Price in annas per maund 5 Value of grain 6 Value of straw 7 Value of gross produce 8 Government share at 25 per cent. 9 Rate per acre harvested	278,400 20 8,700 8,915	23 5,951 1,035 6,986 1,485	7,000 22 241 241	890 890 98	11,520 30 540 86 676 †90	120 8,480 32 174 11 185 †29		Rs. 8 458 453 *	160 20	25,34	10 84,980 10 84,980 64 76 8,498	
3 3 3 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1. Average area in acres 2 Yield per acre in sers or cash value 3 Total yield in eers 4 Price in annas per maund 5 Velue of grain 6 Value of straw 7 Value of gross produce 8 Government share at 25 pe cent 9 Rate per acre harvested	1,600 20 50 21	160 11,840 23 420 7,50 10'	0 3 3 4 4 0 7		5 120 600 80 28 2 3 1		5 160 800 22 28 2 30 †5	Rs. 3	80 80 20 2		12 100 1,200 64 120 120 †27 2-4-0	
	1 Averago area in acres 2 Total yield in sors 3 Price in annas per maund 4 Value of grain 5 Value of straw 6 Value of gross produce 7 Total value of Government shai 8 Rate per acre harvested	8,95 4,02 12,98	0 179,60 0 2 11 6,45 29 1,12 50 7,57 92 1 61	7,00 3 2 64 24 12 76 24	1 420 1 420 0 100	12,280 30 570 89 611 611	3,480 32 3 174 9 11 5 185 6 †29	2,400 22 83 90 †14	519 519	240 20 7	184 25,760 60 2,415 603 3,4-5	622 86,780 64 8,678 8,678 11,953 8-2 3	

^{*} Whole produce deducted for fodder

·-					<u> </u>									
_	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	,								RABL.			_		
*	Foddor	Gardons	Othors	Whoat Barloy		Gojra.	Gram	Gochui	Sareon	Tarawira	Fodder	Gardens	Others	Total.
			Rs 20 40 40 7 3-8-0	£ 820 640 32 32 4 86 5	36 400 14,400 £2 495 68 563 †74 2 0 10	1,050 27 46 5 51 8 2-10 8				٠	30 30	Rs 25	20	16,120 893 77 970 970 135
3	50 50 50			41 360 14,760 32 738 87 824 184 4-7 10	10 360 3,600 22 124 17 141 †28	1 380 360 27 15 2 17 4	7 320 2,240 23 80 7 87 †18	62 860 22,820 28 976 105 1,081 244 8-15-0	4 200 800 45 56 56 †7				1,04 1,04 260 5-0 (	48,580 3,184 214 3,428 768
	16 Rs 10		•	19 360 6,240 82 342 40 352 86 4-8-5	3 360 1,080 22 87 5 42 †8 2-10-8	i		24 360 8,640 28 878 40 418 94 3 14-8	200 200 45 14 14 †2				20 Rs 20 400 100 5-0-0	28,240 1,819 181 2,000 403
3,7	707 Rs. 10 7,070 7,070	4-0 (	Rg. 10 230 230 57	446 250 124,880 52 6,244 732 6,976 1,561	313 280 87,640 22 8,018 411 8,424 †678 2 2-8	114 280 31,920 27 1,347 150 1,497 837 2-15-4	551 240 189,440 23 5,011 436 5,447 †1,128	1,858 230 380,240 25 16,685 1,782 18,417 4,159 3 1-0	150 160 2±,000 45 1,887 1,687 †211 1-6-8	23 160 3,680 52 184 184 46 2-0-0	Rs 10		1,230 1,230 308 3-12-1	7,145 1,869,880
j [‡]	700 700 700 700 700 700 700 700 700 700		0	200 200 32 10 1 11 3 3 0.0	6 240 1,440 22 50 7 57 †11	3 920 660 27 28 3 31 7	23 200 4,600 23 185 14 179 737	20 200 4,000 28 175 19 194 44 2-3-2	1 160 160 45 11 11 †1	1 160 160 32 8 8 2 2-0 0				189 27,840 1,231 145 1,376 259 1 6-11
<b>,</b>	7,350 7,350	31	0 270 0 270 64 0 2-10-8	147,320 32 7,866 863 8,220	365 108,160 22 3,718 504 227 129 2 2 9	130 37,260 27 1,573 175 1,748 380 8-0-0	614 147,240 23 5,291 460 5,751 †1,181 1-13-0	1,464 415,200 28 18,164 1,946 20,110 4,541 3-1-8	156 25,160 45 1,768 1768 †221 1 6.8	24 8,840 82 192 192 48 2 0-0	40	50 50 84 0 0	2,870 2,870 701 4-1-5	7,713 1,488,160 77,201 9,161 86 362 16 188 2-1-7

# STATEMENT XIV — Total Cash Rents paid by Tenants-at-will in Villages finally attested and inspected for assessment.

1		2	3	4	5	6	7	8	9	10	11	12
				TS PAID	ON SINGLE	INGS CO		ON HOLD-	Tot	PAID	RENTS	
Cirole	Olass of l	land or soil.	Area	Rent	Rate per acre	Area	Rent	Rate per acre	Area	Rent	Rate per acre	Remarks
	Chahi		168	789	Rs a 4 14	121	587	Re a	284	1,828	Re a 4 11	Nahr
	Nabri	· · · · · · · · · · · · · · · · · · ·	454	1,890	4 3	231	881	8 13	685	2771	4 0	
=	Narmot		1,920	7,150	3 12	805	2,717	8 6	2,725	9,867	3 10	
Bangar	Magda		264	1,001	3 <b>1</b> 3	241	828	3 7	505	1,829	° 3 10	chiknot
EQ.	Bhur		479	968	2 0	90	163	1 18	569	1,131	2 0	
	İ	Total	3,280	11,798	3 10	1,488	5,126	3 7	4,768	16 924	3 9	
	Chahi	······································	257	1,164	4 9	220	1,128	5 2	477	2,292	4 13	
	Abı		10	73	7 5	17	140	8 4	27	213	7 14	
	Dahrı		27	145	5 6	50	808	6 1	77	448	5 18	
II II	Narmot		180	608	3 6	104	897	3 13	284	1,005	3 8	
Вяток	Mngda		346	1,178	8 7	229	887	8 14	675	2,065	g 9	
<b>H</b>	Bhur		1,583	3,234	2 1	412	953	2 5	1,095	4,167	2 2	
	Uncultiva	ted	5	7	1 6	14	22	1 9	19	29	1 S	
		Total	2,408	6,409	2 11	1,046	3,830	3 10	8,454	10,239	2 15	
	Chahi		305	2,268	7 7	287	2,886	8 5	592	4,649	7 14	
Y.	Dahrı		89	629	7 1	424	8,839	7 14	513	3,989	7 12	
Данав Мучна	Narmot		639	2,571	4 0	689	8,146	4. 8	1,338	5,717	4 4	
АИАВ	Magda		601	3,899		1,012	6,388	6 5	1,618	9,787	6 1	
Ω̈́	Bhur		391	1,230					864	2,956	s €	
	- <del></del> -	Total	2 025	10,092			16,985		4,940	27,077	5 8	
	Chahi		151	1,065	<b>'</b> 1		,	1	! !	2 479	7 0	
	Abi Dahri		32		1				5	31	6 8	
<b>Данав</b> ин <b>а</b> вг	Narmot		903	1	1		1	i 1	1	327 9,975	6 8	
HAR	Magada		143	1	į.	1		1	1,530 311	2 030	6 8	
Ř	Bhur		49	i	1		1 1		127	748	5 14	
	{	Total	1 281		<b></b>			<u>6</u> δ	2,375	10,590	6 8	
	Chahi		2			<b></b>			3	8	2 11	1
Chirnot	Narmot		102	865			128	3 14	135	<b>493</b>	3 10	
GH C		Total	104	870	3 9	34	131	8 14	188	501	3 10	
	Chahi		\$78	5,258	6 0	831	5 48 S	6 9	1,709	10,754	6 4	
	Nahri		454	1,890	4 3	231	881	3 13	685	2,771	4 1	
	Abı		14	98	7 0	18	146	ន ១	32	244	7 10	
Тотас Тапягс	Dahra		149	989	6 11	491	3 755	7 10	649	4 743	7 7	
1 2 T	Narmot		3,74	16,59	4 7	2 268		1 1	6,012	27,0	4 8	
Tor	Magda		1,35	,	1	•	i	í (	3,004	15,711	5 =	
	Bhur		2,501	1	1		1	1 1	3,575	9 022	2 8	
	Uncultr		5		·(				19	29	1 8	
-	1	Total	9,008	37,09	5 4 1	6,577	33 236	5 1	15 675	70,831	4 5	

## STATEMENT XV.-NORMAL CAPH RENIS.

STATEMENT AV.—Normal Cit 1																		
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1					MPLE	RENT	,	Ltx	P RE	Tg RES	OLVI	a.	ŗ	Corag 1	Rent	E		
Circle		So ^r l	-	Aren	Re		Rate er sere	Aren		Rent	R: per:	ate Rire	Ares	Rent			ate acre	Renarcs.
			<u> </u>		-	Re l	Rε A.		-	Rs A.	Re	7 K		Rs	A.	R	. A	
	Chal			,	1	847	4. 5	ł	15	163 0	4	1 (	126	53	0 0		4 8	Nahri includes Chahi-Nabri
	Nah			25	28	967	4. 4	1	)4	416 0	4	0 0	332	1,38	3 0		4 8	and Narmot
æ	Nan			1,2	- }	4,562	3 13	3	22	L,167 (	3	10 υ	1,593	6,03	6 0		J 13	includes Chik- not
BANGAR				1	50	554	8 13	ì	20	420 (	3	s 0	270	97	4 0		3 10	
72	Mag	্	)	1 "	01	747	1 1	<u>,                                    </u>	78	138 (	1	12 6	479	88	5 0		1 14	
	Bhu								3	3 (	0 1	0 (	5		3 (		1 0	
	Und	betazitlus • v	· · · · · · · · · · · · · · · · · · ·	21	31	7,484	3	s 6	72	2,327	C 3	7 5	2,80	9,81	1 (	:	3 8	
	-		otal (	_	24	678		-1	66	<del></del> _	.	13 (	280	-	14 (	-	5 11	
	Cho			1		24			3		0 6		١.	1	13 (		6 2	
	Ab				4	86		1	43	_	4	10 (	1	1		0	5 Ω	
æ	ı	hrı			15	469	. 8	1	8G		1	12 (	1	İ	85	1	3 10	
Biroder	Zu	rmot		1	130	Ω21	8	9	132	495			0 89	1	16	1	3 10	}
Ē	- }	ngđa		- 1	259		_	1	803	619	0 2		1	1 '		ol	1 15	-
	1	hur		1	356	2,600	1	16	5		1	. 0	1	5	5	1	1 0	}
	Uncultivated			-		4 700	1	- -	788	2,667			-	-}	<del></del>	-	2 13	1
	- -		Total		885	4,769	<b> </b>	<u>-</u> ]-	134		1-	7 12	.	-		<u> </u>		1
		hnbı			198	1,507		10	61	1,039	- 1		1 _				7 11	{
	ĒÌ,	)ahrı			83	573	ì	14	- 1	427	- 1		0 1			0	6 16	Į.
•	a   1	Narmot .			855	1,876	1	14	88	346	- 1	3 15	1	ł		0	8 1	ł
;	7	Ungda			191	827	1	5	128	560	- 1	4 6	1	1	387	- 1	4 6	1
	-   I	Bhur	m , 1	-	275	674	-	-  -	1045	260	-	2 8	- [	- !	984		2 /	· <b>!</b>
~		N X	Total		1,102	4,8%	-	-\-	515	2,632	-1-	5 1	.	-	589	0 -	4 11	-}
	į	Chahi			100	72:	i	ì	172	1,236	- 1	7 8	1	1	58	0	7 3	1 .
		Abi Dabri		-	4	5	1	- 1	1	6	ł	6 4	1	5	31	- 1	6 4	*
	2	Narmot			36	23		10	15	99	- 1	6 10	1	1		0	6 10	1
	HAR	Magda .		- {	819	5,26	1	7	568	3,657	- 1		0 1,8	- (	920	- 1		7
	À	Bhur	***	1	110 21	70	1	7	143	921	- 1	6 7	- 1			- 1		7
			Total	-	1,080	7,07	-	10 	961	849 6,268		5 10 6 8			467 341	-	5 1	-1
-	<u> </u>	Chahi			1,000		-		1			8 5	_	2		5 -		-
	GHIRYOT	Narmot		-	85	20	1	3 7	33		- 1	3 13	i	1	419	Ì		2
	Ğ		Total	ŀ	86			<u></u> ;]-	84			3 13			426	1 -		9
•		Chahi	~	-	504	<u></u> -			518	3,423			}		681			- 2
		Nahrı			228	1	- 1	4 4	104	-	- 1		- 1	- }	388	- 1		3
		Abı		1	8	1	}	6 2	4	1	}	6 5		12	74	- 1		3
	Aifsil	Dahrı	•	1	134	1	1	6 10	119	1	3 0		1	253 1	,660	- 1	6	ł
	Total Taissie	Narmot			2,666	12,5	285	4 10	1,097	5,61	7 13	5 2	0 8	- }	,852	- 1	4 1	1
	Tota	afgell			710	0 30	200	4 4	523	2,89	6 C	4 9	0 1	1	401	- 1	4	1
		Bhur			2,03	3 4,	141	2 0	547	1,36	B 0	2 8	0 2	601 £	,507	a	2	2
		Uncoltavi				]				s  	8 0	1 0	0	8	8	o	1	{
			Total		6,29	7 24,	550	3 14	5 07	14,02	0 1	4 13	0 9	217 88	3,600	1	4	3
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### STATEMENT XVI —confinued

	2	* ′	3	4	5	6	7	8	9	10
-			Total	Ағағ-аие	\T	KHALSA RE COLLECTED THE 1E	סעואטע	-		
DAHAR KHARI,  181 181 181 181 181 181 181 181 181 1	Year		Total	Assignod	Κλιαίκο	On recount of this sear	On account of pro	Revenue suspended	Rovenue remitted	Remarks
	ast Settlement	_	ks 38,420	Rs 207	Rs 89,213	Rs 88,213	Rs	Rs	Rg 920	
- }	863 84		30,256	947	35 308	26,772	277	8,582		
1	889 30	Ì	87,411	188	36,430	34,559		1,871	}	
1	696-97	.,	37,411	945	36,466	35,961	]	505		
1	.897 98		37,411	915	<b>86,4</b> 66	36,486	487		1	
_   1	1898 99		37,411	942	36,46c	36,277		124	1	
HARI	1899 CO ,	,	37,411	945	36,460	15,426	8	20 845	ł	
H K	1900 01		87,411	945	36,460	36,466	10,230	1		
Блил	1901 02		37,411	842	<b>S</b> 6,569	80,816		10,044	16,028	
	1902 03		87,411	845	კ6,5სო	35 916	2,793	296		
	1993 04		37,41)	842	<b>86,56</b> 9	34,240	.,421	2,012		
}	1904 05		37,411	842	36,569	36,569	7,688			
1	1905 06		37,411	842	36,569	20,040		16,-20	4,776	
	T	otel	4,86,197	11,070	4,75 127	4,17,730	22,928	61,790	21,724	
		(Fixed	15,604	242	15,362	15,362			2,174	
	Last Settlement	{	2,590	1	2,590	•			-,174	
		Total	18,194	242	17 95	17,952			2,174	
	*	4T3								
	1983 84	{Fixed } Fluctuating	13,095	199	12,896	<u>'</u>	(	8,402		
		Total	1,576	700	1,878		II			
		10141	14,973	100	14,774	11,327		3 402		
	1659 90	Fixed	14 151	76	14 07 a	13,679		<b>3</b> 96		
		(Fluctuating	2 147	28	2,110	2,110				
		Total	16,298	108	10,190	15794		306		
۴.	1896 97	(Fized	14,151	76	14,075	11,392	218	2,683		
CHIBNOP	1000 0(	{Fluctuating	607	1	594	1	l i	-,500		
C		Total	14,758		14,669	<b> </b>	\	2 680		
	1807-93	(Fixed	14,151	76	14,078					
	1	(llactoating	1,444	24	1,420	1,420	l	}		
		Total	15,595	100	15,49	15 438	4 260	'		
	1808-99	Fixed	14,151	76	14,07	5 ₁ 11,263	145	2,7.5"		
		{   Fluctuating	350	1 1	•	1	}	{ -,13"		
		Total	14,507	82		-	·	2,759		
	3503 305	(Fixed	14,15	76	1.0-	1,				
	1800 1900	{ Fluctuating	76	<b>!</b>	1	l .		13,472		
		_		<del> </del>			1			
		Total	14,02	75	14,15	1 60	113	13,472		

### STATEMENT XVI.—continued

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1		2	3	4	5	6	7	8	9
cle cle			Ator	L Assres	MFNT	AHALSA F COLLECTED THE Y	DURINO YKX	ded	72
Assessment Circle	У	oar	Total	Aerigned	Khalsa	On account of this year	On account of providus years	Roronno suspended	Rerenno remitted
		(Fixed	Rs 11,151	R= 7(	R# 14,07	14,075	Pg	Re	](F
	1900 01	{ Fluctuating	940	10	ļ	870	1	1	
		Total	15,091	£1	15,000	14,045			
		(Fixed	14,151	71	14,07	0.023		7,551	16.045
CHIKNOT - conclu	1001 02	Fluctuating	535	2	"	Į.		7,001	18,015
		Total	14,67 1	78	14,29,	·		7 551	15,046
		( Tired	14,151	70	14.054				
	1902 03	Fluctuating	797	13	1 .,		203	4,007	
		Total	14,945			<b> </b>	202	4 (197	
		C Freed	14.251						
	1903-04	Fixed Fluctuating	14,151 488	70		'	105	2,615	
		Total	14,030	84				0.015	
		- T 1			<u></u>				
	1904 05 .	Fixed Fluctuating	14,151 596	76 10		14,075	2,772		
		Total	14,747						
						14,001	220  2453  7,978  203  4,00  784  10702  203  4 00  11,460  105  2,61  450  11,040  10.0  2,61  14,075  2,772  686  14,661  2,772  2,011  12,06  199  2,210  12,06  1,29,657  11,554  49,030  12,057  75  ,41,744  11,629  49,030  2,35,537  2,590  2,38,537  2,590  3,38,127  ,44,078  1,149  56,321  1578		
	1905 06	Fixed	14,151	76	14,075	j		12,064	8,586
		(Fluctuating	14,372	<del></del>					
								12,064	6 568
	Total	Fixed	1,84,360	1,277	· ' <b>!</b>	1,29,657	11,554	49,020	28,787
		(Fluctuating	$-\frac{12,364}{1,96,724}$	128	12 236	.			
		Total	1,50,724	1,400	1,95 318	1,41 744	11 629	49 038	29,757
	Last settlement	Fixed	2,38,511	2,974	2,35 537	2,35,537	l		23,250
		(Fluctuating	2,590	0.074	2 590	].		-	
	<del></del>	Total	2,41,101	2 974	2 38,127	2,38 127		-	2 1,250
	1883-94	Fixed	2,06,717	6 317	2,00,400	1,44,079	1,149	56,321	
		(Fluctuating	1,878		1 876	-			
	<u></u>	Total	2,08,590	6,317	2,02,278	1,45,957	1,149	56,821	
	1889 90	Fixed	2,22 97(	5,19ა	2,17 775	2,10,537	70	7,238	
		(Fluctuating	2,147		2,115	2,115			
		Total	2 25 117	5 227	2,13 696	2,12 652		7,238	
	1896 97	Fixed	2,22,963	4,411	2,18,552	2,15,071	812	3 451	
		C Fluctuating Total	2 83 570	13	594	584	_	_	
			2 23,570	4,434	2 19 146	2,15,665	812	3,481	
	1697 98	Fixed	2,22,963	4,401	2,18,582	2 18 562	5,070		
		( Fluctuating Total	1,444	24	1,420	1,420	_		
	<u> </u>	101111	2,24,407	4,425	2 19,982	2,19,982	5,070		

### STATEMENT XVI.—concluded.

i		2	3	4	5	6	7	8	9	10
<del>-</del> -		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Тотл	ABBESS3	IENT	KHALSA COLLECTL TH:	D DURING FEAR	ded	0 <b>đ.</b>	
	-	Year	Total	Авыдпед	Khilsa	On account of this year	On account of provious years	Rovenuo susponded	Rovonus remitted.	Ranabas,
		(Fixed .	2,22,919	4,401	2,18,518	2,13,90	2 14	5 4,35	9	
1	1895-99	· Fluctuating	856	6	350	350				
-		Total	2,23,275	4,407	2,18,868	2,14 25	14	1,35	1	
	1699-00	Fixed - Fluctuating	£ £2,919 78	<b>4,</b> 390	2,18,529 76	•	25	1,00,46	1	
		Total	2,22,997	4,392	2,18,605		25	1,00,46		
		(Fixed	2,22,919	4,390	2,18,529	2,18,529	49,431	-		
	1900-01	{Fluctuating	810	15	925	l	1	ŧ .		
		_ Total	2,23,859	4,405	2,19,454	2,79,399		<b> </b>		4
	1901-02	Fixed	2,22,819	4,381	2,18,538		]	53,192	77,774	
led		CFluctuding Total	2,23,141	4,383	2,18 758					
m/ak			0,23,141	<del>4,</del> ,100	2,16 106	1 59,385		53,192	77,774	
iere —co	1902-03	Fixed . Fluctuating	2,22,919 797	<b>4,</b> 850 13	, ,		1	17,827		
TV.		Total	2,23,716	¥,358	2,18,358	2,01,669	13 386	, 17,327		
TOTAL	1902-04	hixed   Fluctuating	2,22 919 ¥88	4,350 8				24,717	594	
	<u> </u>	Total	2,23,407	4,358		1,93,421	2,779	24,717	594)	
	1904-05	Fixed	2,22,919		2,18,570	2,18,570			084	
		(Fluctuating	598	10		586				
			2,23,515	4,359	2,19 156	2,19 156	86,543			
	1905-06	$\begin{cases} F_{1xed} \\ F_{1uotosting} \end{cases}$	2,22,819 221	<b>4,3</b> 47	2,18,570 218	1,02,192 199		1 16,378	20 806	
		Total	2 23 140	4 352	2 15 788	1 02,391		1,16,378	20,80€	
	Total	Fixed Fluctuating	28,97,176		28,39,218	24,47,780	1,09,042			•
		Total	12,364	128 53,356	25,51,454	12 C57 2,457,676	75	3 53,471	1 29 404	

No 1092

FROM

B T GIBSON, ESQUIRE, BA, I.CS,

Settlement Officer, Gurgaon District,

 $T_0$ 

MAJOR F POPHAM YOUNG, CIE,

Settlement Commissioner, Punjab, Lahors
Dated Gurgaon, 8th October 1907.

SIB,

There the honour to forward the Assessment Report of the Nuh Tahsıl written by Mr Boughey, Assistant Settlement Officer

There is a close resemblance between the Nuh and Firozpur Tahsils, and the Firozpur Assessment Report, which has already gone to the Press, should In both the proprietary body consists almost exclusively of be read with this Meos, who are pressing heavily on the soil and are extremely poor nothing in the Nuh Tahsil, which corresponds to the fertile valley of the Landoha, but on the other, hand the population is correspondingly less dense, and the percentage of mortgages is not so large. The Bangars of the two talisals are almost identical, the only difference being that the nahri of the Nub Bangai is The Dahar Circle of Nuh resembles but markedly superior to that of Firozpur 18 superior to the Chiknot Circle of Firozpur, while the Taoru and Bhuder Circles correspond remarkably closely in the lightness of their barani soil, the regularity with which the wells are used, and in the consequent security of the cropping and prosperity of the proprietary body I compare below for facility of reference the proposed rates in the circles above mentioned -

	1				2		3		4		5			6			7		-	8		<b>553.</b>		
Circle		Pakke Chahi		Nahri		Abı		Dahrı			Bareni		1	Bhur		•	Total cultiva- tion							
Taoru Bhuder Dahar Ohiknot Bangar Do	•		•	Rs 2 2 1 1 1 1 1	a 4 4 7 8 8 9	P 0 0 0 0	1	B. :	р 0	1 2 1 1	a 4 2 7 12 3	P 0 0 0 0 6	1 1	a. 4 2 7 8 3 9	P 0 0 0 6 0	1 1 1	a 15 7 3 2 3 4	P 0 6 0 6	0 0 0 0	8 11 10 8 10 10	P 6 6 0 0	1 1 1 1	a. 0 2 3 2 5 4	P 5 4 9 1 0 8

In the two last pairs of circles the rates correspond very closely. In the first pair the chahi rate is the same but the barani of the Taoru Circle lacks the fertility of the corresponding Bhuder soil

3 In view of the orders recently passed on the subject of Assessment Reports written by Assistant Settlement Officers, it is perhaps unnecessary for me to add that I am in entire agreement with Mr Boughey's proposals, which appear to me moderate and at the same time suitable and fair both to Government and the people

I have the honour to be,
Sir,

Your most obedient servant,

B T. GIBSON,

Settlement Officer.



## ASSESSMENT REPORT

OF THE

## NUH TAHSIL

OF THE

# GURGAON DISTRICT

## PART I.—PRELIMINARY.

### CHAPTER I-PHYSICAL DESCRIPTION.

The Nuh Tahsil is an irregularly shaped tract divided into two separate portions by a chain of hills running roughly North-West and South-East. To the east of the hills is a parallelogiam bounded on its remaining sides by three tehs. Is of the Gurgaon District, Friozpur on the south, Palwal on the east, and Gurgaon on the north. On the west of the hills is a projection extending from the north half way down the total length of the tahsil, and bounded on the north and north-west by the Gurgaon and Rewari Tahsils, and after that by the Alwar State. Thus the hills separate the Gurgaon District from Alwar State from the south as far as the point where the projecting table land of Taoru begins, nowhere else does the tahsil adjoin outside territory.

The physical characteristics of the tract may all be traced to the abovementioned line of hills, that form part of Physical features the great Aravalli range, and extend a long way beyond the limits of this tabul both north and south. As Mr. Channing points out there are traces of another similar line slightly more to the east, which, though only visible at one or two places within the tabsil, is nevertheless important because it appears just north of the Nuh Tahsil, and forms the eastern side of the Bundsi valley, which is the source of a great deal of the drainage of the tahsil. The hills themselves are about 250 or 350 feet high, and are absolutely devoid of As a grazing ground for goats and cattle they help to supply a much felt want, but then utility in this respect is more than counterbalanced by their forming a haunt for herds of chinkara and wild pig which do immense damage to the neighbouring crops. Their effect on soils and drainage will be dealt with under those heads, and I shall only here notice that they have a distinct climatic influence. The villages at their feet suffer severely from heat especially those on the eastern side, while during the rains the tract is devastated by fever.

The only streams which have any effect on the tabsil now are the Maindwara and the Birond. These are Stream the two channels by which flood water enters the tahsil They are merely torrents which flow after heavy rain, and carry off the drainage of the hills Both have their rise in the Bundsi valley, and enters the tabul entering the tahsil from the north unite near the village of Kaliaka in front of the Khalilpur Bund. The rest of the flooding is due to insignificant torrents to which no name has been given. The Indori Nadi passes through the Taoru Circle on its way to join the Sahibi in the Rewari Tahsil It has no importance as an irrigation stream, though a certain amount of precarious cultivation is done in the dry bed of the stream Formerly there was some dahri land in one or two villages in the Taorn Circle, but a bund constructed in Alwar, where the Indon rises, has put a stop to this. A similar complaint is made—I do not know with what truth—as regards the Landoha This stream reaches the Nuh Tahsil after passing through Firozpur, and its only effect here is in connection with the

the talisil itself, the object of which is to hold up the waters and prevent them—wholly or in part—from entering the tahsil as they used to do. With these I am not concerned in this report, and I therefore proceed to discuss the means taken to deal with the diminished water supply that is now permitted to The Khalilpur Jhil was protected by a single bund bearing enter the tahsil. that name. This extends in a curve along the west side of the old jull and diverts all the water that used to flow into the jull, until it is absolutely held up by the Qutabgarh Bund. A sluice permits of water being let into the basin if required, and this is perhaps capable of some development. No real flooding is done on the inside of the bund, as the waters are merely guided past the dangerous part, and allowed to continue their course round the end of the bund. The map of the bunds will serve to illustrate the position. This is sufficient for the Khalilpur Jhil, but the floods thus diverted would if left to themselves go to swell the Chanden Jhil. To prevent this a bund was built at Qutabgarh, which directly faces the course of the floods. Water is only let through in sufficient quantities for actual irrigation in the villages of Qutabgarh and Mailawas. A sluice was made higher up with the object of letting water into Ghasera, the lands of which have been almost entirely deprived of flood water by these means, but there is hardly ever enough water to reach as far along the bund as this. Between the Khalilpur and Qutabgarh Bunds the floods irrigate a large area of country the village of Chappera, which under the new system was liable to get too much water, a out takes off, which passes by Aldonki and leads to the small Dorainchi In order to still further protect Chappera a mud rampart has been erected round the abadi. As a matter of fact these subsidiary works are rarely required. Only once since the construction of the bunds has Chappera been in danger of flooding, and even then the amount of water that was carried down to the Dorainchi Bund was apparently very small.

Turning to the Chandeni Ihil the most important works affecting this part of the drainage are situated outside the tabsil. The Sohna Bund holds up all the water that used to come down from there, though a large sluice is occasionally opened, which admits of a certain amount of flooding. This, however, is usually done in the interests of the Sohna people and more often than not damages the crops of the Nuh villages. The water may reach as far as Kherli Kankar, but never beyond that point, so it can hardly be said to affect the Chandeni Ihil now. The latter besides being protected from the Sohna floods is saved by the Qutabgarh Bund from any danger of overflow from the east. The only waters that enter it now come from the hills in the immediate vicinity. In the middle of the old jhil is a bund running east and west. This saves the Chandeni lands from excess flooding, as otherwise the surplus water from the northern half of the old jhil would flow down into the southern half. As it is, a small portion is liable to submersion though not to any serious extent. All this area has benefited most enormously by the drainage system. The land is the best in the tabsil, and the crops of wheat and goodin grown there in a fair year are wonderful. The present water supply is amply sufficient, and almost all danger of submersion has been avoided.

The last of the three julis was the largest and most important of all. As previously pointed out the Kotila Bund has for a very long time out off the floods from the Firozpur Tahsil, and after the Chandem Cut was extended so as to form an embankment that joined the Kotila Bund, the only way for those floods to enter the juli was by passing over the bund. This used to occur fairly frequently, and Mr. Channing in his report noted the fact and proposed that the Canal Department should charge abiana whenever it occurred. However for the last ten years no water has been carried along the Kotila Bund channel, and for very much longer than that no floods have passed over the bund. Besides this dam there is no other drainage work of any importance that was built with the avowed object of draining this juli, but there can be no doubt that the draining of the other two julis has had the result of diminishing the water supply of the Kotila Juli also. Surplus water from the Chandem Juli used to pass on towards Kotila, but a good deal was utilised on the way, and the small irrigation Cuts Apart from this, however, the area enclosed by the Kotila Bund and Chandem Cut is very large, and as the slope is all towards the juli a good deal of water used to accumulate there in the days when the Dahar Circle was almost entirely inundated.

But, as in the case of the Chanden Jhil, the only water supply now for the Jhil is from the hills in the immediate neighbourhood, and indeed these two Jhils are now very similarly situated. The only difference is that the soil of the Kotila Jhil is harder and more black, while the slope from the hills is more propounced, so that the floods enter the Jhil area with more violence than is the case in Chandeni Finally the Chandeni floods are spread over a larger area, the various channels by which the water comes down from the hills being somewhat further apart. Thus in every way the Chak Jhil tract is the more insecure owing to the hardness of its soil it requires more flooding, and yet its standing crops are more hable to be damaged when there is a late fall of rain

Three small bunds have been built within the Chak Jhil area, of which only the Akhaira Bund is of any importance. The detailed statement attached to paragraph 44 shows that on the whole it has been fairly profitable. It holds up a little water which flows down the slope from east to west. All the irrigation is on the upper or eastern side, and no sluice was considered necessary. The Palla and Palri Bunds serve no useful purpose and might be handed over to the zamindars to keep up if they wish

This completes the account of the diamage of the Dahar Circle. In Taoru several dams have been built, but the problem was very different. The circle is almost surrounded by hills, but the level being very much higher than that of the Dahar Circle the volume of water to be dealt with was much less, and there was no drainage question, the object being to utilise the water of the various torrents, which owing to the sandy character of 'the tract ate into the ground and did great damage by carving out deep nullahs. Eventually the floods spread over a certain amount of country, but being uncontrolled did more harm than good The first two bunds I will describe are known as the Taoru-Bahora 10ad and Taoru Bunds respectively Their object was to hold up the floods which previously spoilt some very good land north of Taoru The Taoru-Bahora road runs north and south, while the Taoru Bund takes off from it at a point about half mile north of Taoru and runs in a westerly direction By these means the floods from the east and south have been held up and two blocks of land have been most successfully irrigated. The land to the east of the Taoru-Bahora Bund usually grows a good flooded crop The old channel bed has silted up and is now almost level with the surrounding fields to a distance of about 300 yards At a point about 14 miles north of Taoru a sluice has been from the road built to let off the surplus water which thus passes under the road and floods At present this sluice's very badly placed and the only result land on the west of its use is to spoil some good well land. The district authorities have been addressed on this point, and I believe the question of altering its position is under consideration The Taoru Bund has no sluice, but all the irrigation to the south is good and the abi land is most valuable. The Dhulawat Bund holds up water from the hills close to the village from which it takes its name More water is held up than is required and the people are very anxious to have a sluice built allow surplus water to be let off This would not give any in order to further irrigation as the land on the far side of the bund is unculturable, but the water could be let off into the old nullah bed and might be utilised lower down. At present the land under the bund is very hable to submersion and many good crops have been spoilt in this way. The Raheri bund irrigates about 50 acres, though in a good year over 100 acres have paid abiana. Here again there is no sluice, all the water being required for flooding inside the bund, and as a rule the results are most successful. These two bunds are situated close together east of Taoru, but the Raheri Bund gets much less water and there is no danger Further north lies the Sabras Bund This again deals with of submersion local dramage from the neighbouring hills, but it is not quite so successful as the others, as a good deal of damage is done. The people are anxious to have a few alterations made and I think the district authorities would be wise to get an expert to listen to what they have to say, and decide whether the proposed alterations are likely to make a real improvement

5 Mr Channing divided the tabsil into three assessment circles, which have been retained unaltered. To the west lies the Taoru Circle, a high table land almost surrounded by hills and completely cut off from the rest of the tabsil, which it does not resemble in any way. The soil is sandy, and the

is the kharif when almost the whole circle is sown with the autumn and a little inferior cotton. In the spring they have to rely Water being plentiful and sweet there is a regular system of bout the east of the hills is the lowlying Dahar Circle, which re-Area and foot if all the neighbourhood. Its chief characteristic is the Physical and derives its name. The soil just under the hills is light, Drainage and the very heavy clay, which contains a lot of the Drainage and the very heavy clay, which contains a lot of kallar and Assessment 1 thorough soaking with rain water before Soils and lead lead lead lead and a south and the more than the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south and the south an he action of the water is most injurious to the soil. Ramfall r upland forming part of the large loam plain extending sil of the Delhi District to the Kosi Tahsil of the Muttra Palwal Tahsil, to which it bears a strong resemblance. ATCR Communicational is rather hot and dry hardly varying at all the wells being salt are little and its 2 Commander not and dry hardly varying at all the wells being salt are little used, the great like the wells being salt are little used, the great like the properties and holdgram in the spring harvest. When there is a representation in the spring harvest. Borle 10 over and the spring harvest. When there is a concrete the spring harvest. When there is a concrete the spring harvest. When there is a concrete the spring harvest. When there is a concrete the spring harvest. When there is a concrete the spring harvest. When there is a concrete the spring harvest. When there is a concrete the spring harvest. last settlement were-Matered area principly
Percentage of principly
Antered area of anily on the Intured area principle amage from hills or higher lying land.
The system of cultive amage from hills or higher lying land. 21 h soil. BnLy soil.

With... the classes of chahi and dahri there was a further classification by soils, so that we have chiknot dahri, narmot chahi, etc. There was also a class kabil abpashi, in which was put land which was within the area served by a well, but was not irrigated in the year of measurement, and also land irrigable by wells not in use in the year of measurement.

The classification of soils now adopted is the same as the above, except that in irrigated lands no soil distinctions have been retained, while the definition of class have been altered. Two additional classes have been introduced, viz., nabri for canal irrigated lands, and abi for land irrigated from artificial embankments.

The following definitions appear in Mr. Hamilton's Preliminary Report on Soils, Assessment Circles, and Prices, and have been sanctioned for the present settlement.—

Chahr—All land regularly irrigated from a well whether the well is constructed of masonry or not, and whether it is worked by bullocks or by lift (dhenkli). Land will be regarded as regularly irrigated if it has received water in two different years in the period 1898-99 to 1902-03, provided the means of irrigation are still in existence.

Nahra.—All land regularly irrigated from the Agra Canal. Land will be regarded as regularly irrigated if it has received canal water in any two years from 1898-99 to 1902-03, or is irrigated at the time of measurement

Chahi-nahri —All land which is regularly irrigated both from the canal and from a well, whether the canal and well are used in the same harvest or not. All land which has been irrigated from the canal in two years out of the five years 1898-99 to 1902-03 and has also been irrigated from a well in the same five years will be regarded as chahi-nahri

Abi.—All land which is irrigated from tanks, thils, springs, or from river branches, or by District Board bunds. Both the land flooded by water held up within the bund, and also the lands irrigated by cuts from the bund will be included.

The definitions of the unirrigated soils have not been changed. The definition of chahi has been altered, and this accounts to some extent for the difference in the area recorded now. The nahri classification is quite new, but neither this nor the chahi-nahri definition require comment.

7 The question of flooded lands forms one of the chief problems of the Nuh Tahsil. Mr. Channing experienced a similar difficulty, and he notes that he

made a point of looking into this question himself in every village this Mr Wilson three years later was of opinion that the flooded area had been over-estimated, and there seems no doubt that this was true. Mr Channing, from the statistics which he accepted, had an erroneous idea of the rainfall of the tract, and appears to have based his estimate of the floods on the results of exceptionally good years But in any case the flooded area would now be much In the paragraph on dramage I have shown that since smaller than it was then last settlement a great deal of the water supply has been cut off outside the tabsil on the other hand the protection of the three swamps where water used to collect has placed a larger supply at our disposal for irrigation purposes. There is practically no difference between the figures for dahri at last settlement and those for dahrı and abı now ın the Dehar Circle, but these figures are not final, and it is probable that the difference will be greater when all the estates have been inspected. My own experience has been that the flooded area all the settlement entries as correct, land which was shown as dahri in our papers was retained as flooded land in spite of altered conditions For instance, both the Kotila Bund channel and the Chandeni Cut used to convey water over a Owing to the various bunds this has been large portion of the Ujina flats entirely altered, the Chandem Cut has not carried water for many years and the same is true of the Kotila Bund channel Moreover, as I have elsewhere stated, it is likely that this area was liberally estimated on purpose because the land paid a baiani assessment and water rates. In spite of this the settlement entries had been accepted as they stood, and there is reason to suppose that the same kind of thing will be found elsewhere. However the entries are being constantly re-checked in the light of recent experience and by the time that all estates have been inspected, the question will have been gone into most thoroughly. The difficulties have of course been greatly increased by the abnormally dry seasons which have been experienced of late years, as until 1906 there had been no opportunity of testing the correctness of the entries Fortunately the monsoon in that year was average, and the patwaris were ordered to mark on their maps the area affected by flooding at the time when such flooding occurred In order to further test the accuracy of these maps. I had a rough crop register prepared for the Dahar Circle showing the crops grown on land alleged to have been benefited by flooding The result shows that 71 per cent of the area was under wheat or gochni, 14 per cent under bejhar, the rest being miscellaneous crops The result shows that 71 per cent of the area was under Bejhar 14 practically never grown on land that has received a real soaking, and it may safely be assumed that none of the 14 per cent under bejhar received any advantage from flooding Of the miscellaneous crops not more than 8 per cent are flooded crops, the remainder being sarson and tara which are not grown on any but barani lands This shows that about 80 per cent of the land said to have been flooded in 1906 was really advantaged. As it is proposed to put a fixed assessment on abi and dahri lands it is essential only to include in the definition such lands as possess a real advantage I doubt if this has been done at present, and in dealing with the assessment of the Dahar Circle I shall again refer to this important question,

The classification of unirrigated soils made at last settlement has been very little altered, except where the disturbing elements noted above have come into play. In the Taoru Circle most of the soil has been recorded as magda and only the very sandy blocks are entered as bhur, but the difference is not great. The generally uniform character of the soil in the various circles has simplified this part of the work, and very few alterations have been found necessary.

8 Statement I gives details of the rainfall for 20 years from 1885-86 to 1905-06 There are three rain-gauges in the tahsil, and the average of all three has been taken. The year is divided into two periods, viz., the four months of monsoon rain and the rest of the year. The previous figures are compared with those now obtained in the following statement.—

(The figures of the adjoining tabul of Alwar State are added for reference).

Average rainfall as given in Section 7, Gurgaon Settle-	00.0
ment Report	82.0
Average rainfall as given in Section 7, Nuh	00.0
Report	28 2
Average rainfall of 18 years in the Revision Report,	04.0
Section 2	24.0
Average rainfall Tijara Tahsil Alwar (1876-1898) .	22 07
- (Rain Registers	2303
Statement I { Rain Registers	28 33

In Section 2 of the Revision Report Mr Wilson points out that the figures given by Mr Channing do not represent a true average being the result of a few exceptionally wet years. In a district where the variations are so great any attempt to deduce an average from a few years is extremely dangerous. The present statement shows a maximum of 43 06 inches in 1885-86 and a minimum of 11 88 mohes in 1905-06 It will be noticed that the present average is slightly below Mr Wilson's, but the gazette returns on which he based his calculations were admittedly in excess of a true average. The difference is in any case slight. and seems to dispose of the theory prevalent among the people that the rainfall has been diminishing But there can be no doubt that in the Dahar Circle 23 inches of rain do not mean so much as they did before the floods were held up When Mr. Channing wrote his report a normal monsoon or diverted by bunds rainfall meant that a very large area was thoroughly soaked, and even allowing for loss by submersion the harvests were generally good. The result of interfering with these natural floods as far as this circle is concerned has been to make the distribution of rainfall far more important than it was before. Most of the soil is heavy (some of it being extremely stiff clay), and as it does not get soaked to the same extent now, frequent rain is absolutely necessary

The area under crops is larger in the autumn than in the spring harvest but the latter entirely consists of valuable crops capable of yielding a high outtuin. For the former about 17 inches of rain are required during the four months; less than 14 inches may be said to result in total failure, while the average rainfall of 23 inches should be sufficient to ensure a fairly good crop. The statement shows how abnormal the last few years have been. In the 20 years there have been 9 falls of less than 17 inches, 5 of which have occurred in the last eight years. For the spring crop no similar estimate of the amount of rainfall required can be made, as proper distribution means much more than actual amount. Rain is required at least every 6 weeks and a very heavy fall late in the season is certain to damage the gram and submerge a large area of lowlying crops

The sandy circle of Taoru can do with considerably less rain than is required in the rest of the tahsil. Its principal harvest is the kharif, and as the monsoon rarely fails altogether there is usually some sort of a crop. Moreover the circle is particularly hardy and the variation in rainfall has a very much slighter effect

### CHAPTER II.—GENERAL STATISTICS

9. The following table compares the areas of the past and present Settlements Before Mr. Channing's Settlement Tabal were distributed over various parganas which were merged into the tabals of Gurgnon, Palmal, and Nuh, making any comparison of area impossible.—

1		2	3	4	5
	,	Total area	Preci	TILOF EX TOTAL A	LEEA CF
		in nen z	Uncel'erable	Unroll rated	Collinated
hast Rassiamust Num	**	257,6-7	13 13	6	81

Cultivation had practically reached its limit at last settlement, and there is very little difference between the two sets of figures. No further extension is possible without encroaching on the grazing area, which is already too small. Fortunately a good deal of the unculturable area consists of hills where some grazing is obtained, but the remainder is salt land which hardly produces anything beyond a few karil bushes. The present area is distributed by circles as follows.—

1	2	3	4	5
Heading	Taoru	Dahar	Bangar	Total
Unoulturable Culturable Cultivated	22 3 75	14 7 79	5 6 '89	12 6 82

The above figures do not require much explanation The large unculturable area in the Taoru Circle is all hill land, and this explains why the culturable area is so small, there being less necessity to set aside land for grazing Similarly the difference between the Dahar and Bangar Circles is almost entirely due to the hill area possessed by the former, though possibly there is also slightly more salt land. The culturable area in each circle is terribly small.

10. The areas of each class on soil at last settlement and now are compared in the following statement —

1	2	3	4	5	6	7	8	9
	TAOF	ισ	DAT	IAR	Ban	GAR	Тотлі	Tansil.
Soul	Settle ment	Now	Settle- ment.	Now	Settle- ment.	Now	Settle ment	Now
Chahi Nahri Abi Dahri Chiknot Narmot Magda Bhur	 9 34 2 18 1 99 64 91 21 58	13.08 2.65 1.45 1.89 61.63 19.30	3 38 37 68 1 43 36 62 10 05 10 84	3 63 8-08 29 23 2 23 36 06 10•41 10 36	5 04  07 2 54 72 39 11 36 8 60	5 61 26 71 1 10 08 1 50 46 68 10 37 7 91	5 23 15 17 1 61 44 71 21 28 12 00	6 \$0 11.06 4 13 11 71 1 49 33 76 20 43 11 10

The large increase in the chahi area is due in great measure to the different classification now adopted

The new nahr classification needs no comment but it explains the alteration in the narmot area in the Bangar Circle. The classification of land as abi is also new. Taken in conjunction with the dahri the figures are very interesting. In the Taori Circle where the bunds have been most useful the total flooded area shows a decided advance on the settlement figures. In the Dahar Circle the total is exactly the same, but this result has largely been obtained by blindly following the settlement classification in spite of altered conditions, and I have elsewhere stated my reasons for thinking that the total floaded area now is smaller than it used to be. The unirrigated soils were most carefully classified at last settlement, and practically no alterations have been made. As the final attestation of many villages remains to be done the above distribution is liable to alterations.

The increase	of	cultivation	by	circles	18	as follows	:
Taoru		•	,	•			

14014	•	•	•	•			• •	14
Dabar	•••	•		•••	•		**	6
Bangar	***	***	***	***	***	••		6
					_			
					Total T	ahsil		75

trigation (a) Wolls grown on unimpated land and the wells are used as little as possible. There are several reasons for this First and foremost is the saltness of the water. Even if there is rain at sowing time the heavy clay and loam soils are injuriously affected by the use of salt water. There is moreover a great tendency to saltness in the soil, and this is intensified by irrigation with salt or brackish water. As this will be dealt with more fully in the chapter on the system of cultivation, it is sufficient here to note that though the wells are practically not used at all in the autumn, and as little as possible in the spring, the protection afforded by them is most valuable, as in dry years the unirrigated crop is a total failure. The above remarks do not apply to the Taoru Circle where the wells are in regular use for the same reasons as in the Rewari Tahsil.

The data relating to the wells of each circle are given in Statement III. Kachcha wells are only popular in the Taoru Circle, and it is curious to notice that this popularity is of very recent growth. The reason appears to be that there are now enough masonry wells to ensure a fair amount of stable irrigation, and it has been found profitable to dig rough kachcha wells, which here cost only about Rs 10, and often not as much as that, and last from 2 to 10 years. In the other circles the saltness of the water and the system of irrigation referred to above, render kachcha wells useless. The cost of a masonry well varies with the size and length of the cylinder. The result of my inquiries has been to show that an average well costs Rs 20 per hath (i.e., 1½ feet) to construct. This assumes that the work is done by the zamindar himself with the help of a mason and not given out on contract. In the latter case the cost is much more. On the above assumption the cost works out as follows.—

								Rs.
Taoru Bangar	}	•••	•••	•••	***	444	***	750
Dahar	***	••	***		•••	***	•••	450

A good masonry well lasts for 200 or 300 years, but there is a tendency to leave repairs rather too long, and I should put the life of a well at not more than 150 or 200 years.

Another class of well is found sometimes in the Dahar and Bangar Circles known locally as Kurand These are roughly made with stones put together without the help of mortar above the water level. They are not very successful as they cost about half as much as a proper masonry well and do not last nearly so long Lastly there is the dhenkli, consisting of a shallow hole in the ground from which water is lifted by a wooden lever. A few are in regular use by malis for growing vegetables and other valuable garden produce, but as a rule they are used in dry years only Water must be very close to the surface to make the dhenkli profitable, and the three places where they are to be seen working in great numbers in a dry year are the Kotila and Chandeni Jhils, and the lowlying flats near Ujina The dhenkli is always dug by the user himself, and the only cost is about Re 1 or Rs. 2 for the wood lever, which will last for a fairly long time.

The average area arrigable per lao in each circle is shown in columns 36 and 37 of Statement III. It is largest in the Taoru Circle where irrigation is regular, though 4 acres is a very low average. The reason, I think, is that near the hills the wells are deep and hard to work, and consequently irrigation is small. In the fertile villages in the middle of the circle the irrigation is distinctly higher, and I was not prepared for such a low figure. In the Dahar and Bangar Circles the small average irrigation is due to the peculiar circumstances which have been already noticed. The figures are however somewhat misleading, as there are many two lao wells on which both laos are never worked together, because the result would be to work down to the salt source and rum the well. Such wells have to be shown as two lao wells, but naturally the irrigation, which would be small for a single lao, is ridiculously

inadequate for two. Moreover even when this is not the case it is very common to find that a well is not being used to the full capacity of the working lass because it is not spring-fed, and if overworked is liable to run dry. This to a certain extent vitiates the resulting averages, but on the other hand it shows how limited the action of the wells necessarily is in those circles. As regards the character of the water it may be said that generally water in the Taoru Circle is sweet, and in the other circles either salt or brackish. This is true of Taoru almost without exception as the statement shows. In the other two circles the proportion of salt and brackish wells would be very much higher, but for the fact that there are a number of wells the surface water of which is sweet but the source being salt, the character of the water changes after it has been worked for a short time. Most of these wells have been recorded as sweet matter of fact, except just under the hills, I do not think any sweet wells exist in the Dahar Circle, and I doubt if there are any in the Bangar Circle either For the cost of wood-work and the method of working the wells I would refer to paragraph 8 of the Rewari Report The various prices given to me in answer to my inquiries were somewhat higher than those detailed for Rewair, but the recent famine has had a very serious effect on the Nuh Tahsil and prices are admittedly inflated.

The increase or decrease per cent of wells capable of use, lass and irrigation in each circle is as follows --

	1	2	3	4	5	6	7	8
		Wells	IN USE	La	.05	Irrigation		
	CIBOLE	Pakka	Kachoha	Pakka	Kachcha	Pakka	Kachoba	Total.
Taoru Dahar Bangar	• •	+33 +164 +102	+500	+26	+160	+99	+71	+97
	Total Tahsıl ,	+78	+252	+27	+96	+38	+87	+42

This shows a most satisfactory development in irrigation throughout the The largest increase in masonry wells has been in the Bangar Circle Considering that this circle alone has benefited by canal irrigation the development appears abnormal, but the area that is not served by the canal is very There is no flooding as in the Dahar Circle, and in a dry year there would be total failure except for the wells, moreover, as previously stated, the wells when sunk cannot be fully used It is instructive to compare the protec-, tive power exercised by a well in the various circles. In the Dahar Circle it is The chahr area per well is only 5 acres and the irrigation terribly small 2 acres 'This includes a certain number of wells under the hills, where the water is good and the soil light, and where consequently irrigation is properly kept up. In the Bangar Circle a well protects between 9 and 10 acres and irrigates 4, while in the Taoru Circle between 8 and 9 acres are protected and over 5 acres irrigated The figures in columns 3 and 18 show that the proportion of single lao wells is greatest in Taoru, so this difference is not due to any superiority in the size of the Taoru wells, but is a real illustration of the comparative effectiveness of irrigation in the various circles. The extraordinary figures for non-masonry wells in the Dahar and Bangar Circles may be neglected, the total number being 12 in each circle as against 2 at last settlement The present irrigated area is the average of the 8 years from 1898-99 to 1905-06 and may be taken as accurately representing the average in the various circles. The settlement figures only give the area irrigated in the year of measurement. In a tabul where the well irrigation varies so enormously with the rainfall the results of a single year are most unlikely to prove of any value, and this is shown by comparing the result of

adding the two years of revision, and getting an average for three years as

1	2	3
Circle .	Settlement	Average of 3 years.
Taoru Dahar Baugar	2,480 577 1,406	2,717 896 1,542

This shows that the increase in irrigation is not so large as the figures seem to indicate, in fact as there happened to be really good rain in the year of measurement the figures are useless (as regards the Dahar and Bangar Circles) except to show how little the wells are required in a good year. The information required by Settlement Commissioner's Circular No. 21 is given in the following statement:—

**********			T	2	3	4 -
	Assessment	circle		Number of mason- ry wells in use in the beginning of the expiring settlement which have fallen out of use during its term	Number of new masonry wells sunk during the term of the expiring settlement and still in use	Number of masonry wells which were not in use at the be- ginning of the ex- puring settlement but were repaired during its term and are still in use
Taoru			***	10	74	33
Dahar	•		•••	55	110	55
Bangar	r**	,,,	**	24	107	61
-		Total Tahsıl	•••	89	291	149

The system of irrigation in vogue on the Agra Canal has been described in the Palwal Report There are no important differences in the Nuh Tahsil The cultivators are mostly Jats, the proportion of Meos being too small to affect the main results. The average area irrigated yearly for the selected years is 17,452 acres, or 75 per cent of the nahri area, which corresponds almost exactly with the Palwal figures. At last settlement irrigation from the Agra Canal was only just beginning, and Mr Channing did not levy any nahri assessment, nor did he give details by tahsils of the area irrigated. He notes however that in the year of measurement 23 Nuh villages took canal water in the autumn and 22 in the spring, the irrigation for the whole district being 41,275 acres in that year. Mr Wilson in his Revision Report gives more detailed figures, the entries for the Nuh Tahsil being as follows.—

1	2	3	
Number of villages in which irrigation takes place	APEA IRRIGATED IN ACRES		
	1881-82	1882-83	
25	9,974	12,145	

The actual increase in irrigation is shown in the following table of the areas irrigated in each harvest since the introduction of irrigation in 1875 —

12

		1				2	3	4
		Yea	r.			Kharıf	Rabı	Total
· · · · · · · · · · · · · · · · · · ·						~ ~ ~ ~ ~	10,000	
l883 84	••	• •	**	••	•••	5,641	12,398	18,039
1884-85	• •	44	44.	***	•	7,181	5,896	13,077
1885-86	•••	•	4.	***	•••	6,108	10,910	17,018
1886-87	***	• •	***	***	ł	2,192	7,354	9,546
1887-98	•	•	•••	441	•••	5,827	7,754	13,581
1888-89	**	***	*11	•	•	4,717	9,728	14,445
1889-90	***	•	•		••	7,049	11,564	18,613
1890-9 ւ	•••	***	• •		•••	4,735	10,468	15,203
1891-92	***	**	***	4 4	***	7,004	12,031	19,035
1892-93	**	•	•	•	• 1	4,934	5,705	10,639
1893 94	•	•		**	,	4,772	6,883	14,355
1894-95		•		•	• [	7,778	4,955	12,733
1895-96	• •				}	6,360	9,289	15,649
		Average of I	0 years	•		5,807	8,573	14,380
1896-97			***			9,141	15,259	24,400
1897-98				•		8,809	8,757	17,566
1898-99		•	•		•• [	7,242	10,320	17,562
1899 1900		•	•1		•••	8,780	11,214	19,994
1900-01	***			• •		10,541	4,337	14,878
1901-02		***		**		7,739	11,511	19,250
1902-03	,		••	•		8,150	9,789	17,939
1903-04	••	•				8,333	9,327	17,660
1904-05			••			9,177	630	9,807
1905 06	••	ζ.		***	•••	6,003	11,695	17,698
		Average of 1	0 years	•	١	8,391	9,284	17,675

The great variation in the figures is due to the fact that the amount of canal water taken varies with the rainfall, in a good year very little water is wanted, whereas in a dry season the cultivators will take all that they can get. Unfortunately this tahsil lies at the extreme edge of the area served by the canal and there is usually not enough water for their needs in a dry season. The ten years' averages indicate a steady increase in the irrigated area, and though to a certain extent the recent dry years are responsible for this, yet new distributaries have been opened, and the canal is generally popular.

The following statement has been made up from figures supplied by the Canal Department. It shows the area irrigated with the amount collected during the five years selected for the Produce Estimate.

1	2	3	4	5	6	
_	Average	AREA IRBIGATED	Ocompier's	_		
Year	Flow	Laft	Total.	rates	Owner's rates	
1898 99	15,327 12,089 16,116 14,359 14,819	2,069 2,366 3,253 2,800 3,254	17,396 14,455 19,369 17,159 18,073	51 304 41,145 56,639 50,991 53,655	14,477 13,342 18,865 16,851 17,182	
Total of the 5 years	72,710	13,742	86,452	2,56,034	80,217	
Average of the 5 years	14,542	2,748	17,290	51,207	16,043	

For purposes of reference I also append the table of the rates of canal dues now in force on the Agra Canal. The old and new rates are compared in

para. 8 (b) of the Palwal Report, where the whole question has been fully discussed.

,1	2	3	4	5		
			PROPOSED BY PUNJAB GOV- ERNMENT			
Crops.	Original	Revised	Per acre	Per bigha		
Cane Wheat, barley, and mixtures Gram and peas Cotton	R s p 8 14 3 4 0 0 4 0 0 4 0 0	Rs a. p 8 14 3 5 5 4 2 10 8 2 10 '8	Rs a p 8 12 10 5 3 3 2 12 10 2 12 10	Rs a p. 5 8 0 3 4 0 1 12 0 1 12 0		

The main road from Gurgaon to Firozpur passes through this 12. tahsil. From Gurgaon to Nuh it is Communications already metalled, and the conversion of the remaining portion is now being undertaken as well as of the road from Nuh The latter is the more important of the two as far as this tabsil alone is concerned, as it links it up with the Agra-Delhi-Chord Railway, besides facilitating communication with the important market town of Palwal, which already receives most of the surplus cotton of the tahsil The eastern portion of the tahsil has fairly easy communication with the town of Hodal, in the Palwal Tahsil, which is also on the Agra-Delhi-Chord Railway, and besides being a market town itself, lies close to the town of Kosi in the Muttra District. the canal area is fairly accessible, and as the available surplus is largest there this 18 Satisfactory The Grand Trunk Road passes quite close to the eastern boundary of the tahsil, and is of great assistance in conveying produce to Hodal Palwa land Hodal contain ginning mills, and there is consequently a ready demand Within the tabul itself the only market towns are Nuh, Hathin and Taoru. The latter is connected by a poor sandy road with the town of Rewari, but I cannot find that there is any trade along it, as the people seem to deal entirely with their local bannias, and the latter find a ready market for their stock within the tabsil itself.

The figures for live-stock are given in Statement IV. Comparing columns 2 and 6 there has been a Live stock. decrease in every circle, and a deduction must be made from the present figures on account of bulls. The position is worst in the Dahar Circle, while in the Bangar Circle the numbers have remained almost stationary, and there has actually been a slight increase in the number But the introduction of canal irrigation has had a great effect upon the prosperity of the people, and the position is not as good as might have been expected. The present condition of the tahsil is undoubtedly bad, but I doubt whether it is comparatively so bad as the figures indicate. The Taoru settlement figures for instance seem to be obviously too high Even with their present numbors the people have morethan is actually necessary for cultivation and can afford to sell at neighbouring fairs. But more extraordinary still is the decrease of ploughs in Taoru. This would seem to indicate an amount of distress which is very far from being the case, and I can find no satisfactory explanation of it. therefore prefer to take the present figures by themselves without paying much regard to any increase or decrease they may indicate, as I do not think that much reliance can be placed upon this. In the Taoru Circle then we have an average of slightly under 16 acres of cultivation to a pair of bullocks, after making On this light soil this is a very small duty per plough, and, allowance for bulls as might be expected, the people not only can afford to sell at neighbouring fairs but also lend to their poorer relatives in the Dahar Circle In the latter place the shortage of plough cattle is terrible Making allowance for bulls the average works out to 28t sores to a pair of bullocks. On that heavy clay soil 12 acres would be by no means a low average, and the present figures are practically

twice as much. Moreover, the position now is if anything worse, as numbers of cattle died in 1905-06. The results are everywhere apparent. Land does not get nearly as much ploughing as it requires with the result that outlurns suffer. Again, if a tendency to saltness appears, a little care and frequent ploughing may do wonders, but nowadays such land is often given the same scanty attention with the result that one or two dry seasons are sufficient to cause very serious injury. The average for the Bangar Circle is the same as that for Taoru, 16 acres. This is about right for the class of soil, though in the canal tract a pair of bullocks probably do not work quite so much, as the land is very carefully prepared and the people can afford to keep as many as they require. The plough averages do not show any very great difference, 17, 24 and 16 acres being the averages for the three circles.

Turning to other animals, the number of cows is in all circles almost the same as that of bullocks. The proportion is lowest in the Bangar Circle where, however, many more cow-buffaloes are kept. The numbers of young stock are fair, though, as I remarked before, the present totals would probably be considerably lower. Taking the figures as they stand we may say that the numbers are quite sufficient having regard to the smallness of the grazing area. Sheep and goats are not usually kept by agricultural tribes. A certain amount of transport work is done by donkeys, but bullock-carts are generally used for this purpose, the number of camels being small.

14 The following table shows the totals of the general population at Population.

Population.

	1	2	3
	Year	Population	Incidence per square mile
1848 1868 1881 1883 1891 1901	 •	95,999 1,41,407 1,20,324 1,15,870 1,31 593 1,45,931	299 288 327 362

Details by circles of the last three enumerations are given in Statement IV The causes of the decrease in population between 1868 and 1883 are dealt with by Mr Wilson in section 6 of his Revision Report. In the next 8 years an increase of 13 per cent is recorded, and the last census showed a further increase of 10 per cent. The present total is very little in excess of that recorded in 1868, but to appreciate the position correctly the details by circles must be examined. From them we see that the population in the Dahar Circle is still less than it was in 1881. This is the more astonishing as the drainage of the flooded lands has undoubtedly done much to improve the healthiness of the tract. Neither the soil not the people appear able to make any headway against adverse conditions, and one or two bad years have an effect which only wears off very slowly. Most of the increase in population is in the Bangar Circle, though the Taoru figures are satisfactory.

The following places have been classed as towns -

Taoru	1 1	Jina
Nuh	0	lhasera.
Malab	j I	Tathin

Excluding their population and cultivated areas the incidence of the rural population per square mile of cultivation is—

Taoru			••					465
Dahar		•	•••	• •	• •	•		809
Bangai	***	•••	***	***	**	• •	•	417
						Ţ	Cotal	421

15. The usual form of tenure is imperfect bhaiachara, as the following statement shows:—

	1				2 3		5	6
Circle.				Zamin	DARI	,	Bhaivs.	Total
				Landlords	Communal.	Pattidari.	Bhaiys, chara	Total
Taoru Dabar Bangar	  Total Ta	  hail	**	1	1 4 3 8	28 29 24 81	55 79 72 72 199	84 106 99 289

Statement XI shows that 58 per cent of the cultivated area is in the hands of the owners, and the average area per owner and the size of proprietary and handkasht holdings is given below—

	1		2	3	4
Secretary desired to the second	Cırole.		Average of proprietary holdings	Average area per owner	Average area of  Lhudkasht holdings
Taoru Dahar Bangar	  Tota	 	10 1 5 4 8 0 7 0	8 7 7 8	3 4 2 2 3 0 2 7

There are very few large owners One or two villages were auctioned for failure to pay land revenue, and elsewhere large properties have come into the hands of mortgagees, but as a rule the land is owned by small peasant farmers. Their position is infinitely worse now than it was at last settlement. Then cultivation had recently increased and there was very little debt. The figures in the above table are for all cultivation, but if we exclude the area in the hands of mortgagees and of tenants who cultivate at revenue rates we find that the average area free for profit per owner is as follows.—

Taoru	٠		•••	***	•		•••	***	55
Dahar	•••	***	••	***	***	***	**	***	4.3
Bangar	***	•		•••	**	**	***	<b>#</b> 93	4.7
				-	Total T	aheil	184		47

Thus in spite of the fact that population has not greatly increased, and in the Dahar Circle indeed has remained almost stationary, the farmer is distinctly worse off for land than he was then. Omitting the canal tract I have no hesitation in saying that there is a general poverty throughout 'he tahsil, and with such a small unencumbered area I see no prospect of amelioration unless a series of exceptionally good years should come. The area under cash rents may seem to show that at present the secrety of land is not severely felt, but a great deal of the cash rent is on mortgaged land while the few large owners all take cash rents as a matter of course. But besides this there are two reasons which make the small owner ready to let out put of his holding. Except in the Taoric Circle land requires a great deal of ploughing and there are very few cattle with which to do it. To some extent the farmer is often forced to let out his land, though as a rule he is not by any means unwilling to give up one or two fields. If the season is good he gets a fair rent, and in the Dahar and Bangar Circles the outturns will rule high and profits on the remaining portion will be large. On the other hand if the season is bad, he will not get any rent, but he will be no worse

off then if he had retained it, and if the succeeding harcest be good, he may recover some arrears of rent as well, this he regards as clear gain. In spite therefore of a fairly large cash rented area I think there is throughout the tahsil a most serious scarcity of land with its inevitable result of poverty and inability to stand out against the failure of even a single harvest.

Statement V shows the distribution of ownership according to the main agricultural tribes There is a large predominance of Meos, who taken as a whole In some parts they are distinctly good, but they need are only fair cultivators to see quick and certain results of their work or else they get disheartened and In a village where Meos are found side by side with Ahirs or Jats the difference is surprising, though they never learn to adopt the thriftiness of those tribes Next in importance as regards numbers are the Jats, who are mostly found in the canal tract. These and the few Ahirs are by far the best cultivators in the tabsil All the available irrigation is carefully developed in their villages, and unremitting toil and care are bestowed to get the best value out of the land The remaining tribes are all inferior. Rajputs, whether Hindu or Mussalman, are very indifferent. Owing to the strictness of their marriage rules they are rapidly decreasing in numbers, and as a rule in their villages holdings Both Brahmans and Khanzadas are equally bad, but the Gujars are There are a few Mahajans and Kayisths, who are owners by purchase, and do not as a rule do any cultivating themselves Occupancy tenants are generally Meos or Jats with a fair sprinkling of privileged Brahmans or Faqirs. Apart from these there is no proper tenant class, the tenants-at-will being generally owners cultivating either in some other village or under purchasers and mortgagees

Statements VI and VII contain detailed statistics of transfers, while in the following table the present state of transfers is compared with that in existence at the time of settlement. The top figure is the percentage of the area transferred, and below is the price in even rupees —

	1	2	3	4	5	6	7	
			Sales		Mortgages			
	Circle.	Before 1857 to settle- ment	to settle- Since settlement.			Now		
		Total area,	Total area	Cultivated area.	Total area	Total area,	Cultivated area	
Taoru Dahar Bangar	*** 1 ***	Rs 15 18 Rs 10	33 37 75 19 16	40 41 62 29 16	3 25 15 12 9 21 3 2	17 7 40 30 8 40 21 0	23 6 40 37 9 41 23 7	
Dangar	***	Rs 10	50	57	20	58	58	
	Total	***	4 3 26	3 9 36	<b>\$</b>	24 3 46	29 2 46	

Of the sales 88 per cent and of the mortgages 68 per cent are to zamindars. The quinquennial statement shows that the worst period was from 1895-96 to 1899-1900. Except that there has been a slight falling off in the last periods (due in great measure to the Land Alienation Act, and also to some extent to the fact that there is very little land left to mortgage) the area sold and mortgaged has steadily increased. Not much reliance can be placed on the sale figures. Some of them are fictitious transactions, but the majority, I think, are small sales with a view to reducing mortgaged property.

The high proportion of sales in the Dahar Circle is a bad sign, as not only is the Meo habitually averse to parting with his land, but the size of holdings

great Sambhar Salt Lake would finally extinguish it. This has actually occurred, but so far from having a grievance against Government it would appear that the industry was for a long time bolstered up by Acts which conferred a monopoly upon it.

As in other tahsils, both pala and pula are found, but not in sufficiently large quantities to affect the tahsil as a whole. Allowance has been made for them in the village assessments in the few cases where the crop has been large enough to justify an enhanced assessment, but this has not often been the case, as it is generally used by the zamindar himself for folder, and the surplus available for sale is small. No outside professions are taken up, the people as a whole being dependent on the land. Some Rajputs go out as soldiers, but the Meo is not popular as a recruit, nor does his inclination he that way. He prefers not to leave his land unless forced to do so by poverty or some equally cogent reason, and then he does not as a rule return to his village at all.

#### CHAPTER III — CROP STATISTICS.

18. Detailed crop returns by soils for the years selected for the produce estimate are given in Statements VIII and IX. They only show the cropping on the settlement areas as modified by the patwars at crop inspections. This is important in the dahri and abi classification, where I suspect that the areas have been over-estimated. The entries of nahri may be regarded as fairly correct, and in other respects there has been very little change.

Statement X shows the area matured at each harvest in the various circles during the 21 years 1885-86 to Matured area 1905-06, with quinquennial averages the Taoru Circle the average is wonderfully high This is due to the character of the soil, which is light and hardy Not only is less rain required, but it is capable of withstanding drought for a longer period than the heavy soils over, most of the land is used for autumn crops, and as, even in a dry year, it is unusual for the monsoon to be a total failure there is always hope of obtaining at least a moderate harvest in the rabi except well-irrigated crops very little is attempted, and as the water is sweet the results are fairly good Circle on the other hand the cultivation is extremely precarious heavy, and requires a thorough soaking, though in many parts owing to the prevalence of kallar it is not good to have water standing for any length of time. The small matured percentage shows the difficulties with which the cultivators have to contend, as either excess or defect in the rainfall has a serious effect on the harvest In the Bangar Circle the high matured percentage is due, not to the intrinsic character of the soil, but to the fact of canal irrigation, which protects a very large area It will be shown elsewhere that this protection has probably been to some extent exaggerated, and that a larger failed area ought to have been allowed, but for the present it is sufficient to point to the irrigation as mainly responsible for the matured percentage.

Turning to the average for the five years selected for the Produce Estimate it will be seen that in Taoru it agrees almost exactly with the average of the 21 years. In the Dahar Circle it is 6 per cent below, and in the Bangar Circle 42 per cent above the average. The explanation in each case is, I think, to be found in the dryness of the seasons.

Statement I shows that in 4 out of the 5 years the rainfall has been below the average. In the Dahar Circle this has had a very perceptible effect. The heavy land, which has been accustomed to get a thorough soaking has become hard and dry, and in many cases the resources of the cultivators have not been sufficient to enable them to plough such land with bullocks few in number and weakened by want of sufficient fodder. In the Bangar Circle, on the other hand, the effect has been to extend the demand for canal irrigation, and thus increase the protected area.

20. The following statement shows in percentages the average area of each important crop sown, matured, and failed on 100 acres of each class of land during the years selected for the Produce Estimate:—

1		1	2	3	4	5	6	7	8	9
	T		TAOB	ט	DAH	AR.	Bangar		Total ·	Tansil.
Ord	pps		Settle-'	Now.	Settle- ment.	Now	Settle ment.	Now.	Settle- ment.	Now
Jowar Bajra Mung Moth Til Ohaula Cotton Wheat Barley Gram Mixtures Sarson Tara Guar Chari Others Bejhar Vegetabl Rice Sugarcan	***		1 73 1 3 2 9 6 1	2 46 5 1  8 3 1 9 7 2 1 10 1 3 	16 19   14 26 7 3 7  1	10 24 2 1 1 · 10 4 9 9 9 9 4 11 7 6 3	31 24 31 31 31 31 31 31 40 11 11 14	12 26 2 1 1 1 13 4 13 12 2 2 1 7 2 1	19 32  1  10 11 7 66 3  2 8	9 30 2 1 1 2 10 4 11 10 4 2 
•	Total	,	100	100	100	100	100	100	100	100

21 The characteristic agriculture of the tahsil is that practised on the flooded and unirrigated lands in the Dahar and Bangar Circles. In the Taoru

Circle the soil is sandy and the cultivation resembles that adopted in Rewari. Barley is the chief irrigated crop, the soil being too light for wheat as a rule; moreover wheat requires more water and care generally, and with the exception of the Ahirs the people are not sufficiently industrious to grow it. Gochni is grown on the best abiliand, but the area is small. The only other irrigated crops are tobacco and zira, and the fodder crops kasni and carrots. The wells are not used for the autumn crops, except to grow a little charn. On the irrigated land the main crops are bajra mixed with pulses in the autumn and dofash gram (if conditions are favourable) in the spring. A little cotton and juar are also grown on flooded land. As regards the method of preparing the soil, the time of sowing, and the amount of seed sown there is nothing to alter in the description already given for Rewari. For the same reasons I do not propose to give a detailed account of the nahri cultivation. The Hathin Circle, where all the canal irrigation is found, adjoins the Palwal Tahsil, and naturally the two systems are the same

On flooded lands the main crop is wheat. The best land is sown with wheat alone. Seed is liberally given, 30 sers being the usual though at the same time the minimum quantity. Provided that there is sufficient rain to bring down the floods the same land can be grown to a wheat crop year after year. Manure is given every third or fourth year, but the main essential is that the land should be properly ploughed. Not only is the soil a stiff clay, but frequent flooding adds to its original hardness, and the more it is broken up the better. This of course can only be done when it has been moistened by rain, and consequently the importance of the rainfall to this land cannot be over-estimated. It requires a good flooding during the monsoon, and yet the water must dry up sufficiently quickly to enable the land to be ploughed at the proper time. The same remarks apply to the cultivation of gochni on the less heavily flooded land. As to bejhar, although the cropping returns show a

great deal of this crop on flooded land, it merely means that the field has not received sufficient flood water to make any appreciable difference, and is frequently a sign that the flooded area has been over-estimated. So far I have only dealt with the spring crop As may be imagined the land that is regularly flooded during the monsoon is not of much use for growing an autumn crop, but juar, bajra, cotton, and occasionally melons, are found To some extent the remarks made above about over-estimating the area apply here also crops are grown on land which, though classed as flooded, does not under normal circumstances get enough flooding to injure a standing crop. But this is not the only reason. It often happens that some of the flooded land has not been available for a wheat crop owing to excessive flooding or drought. Under these circumstances if the zamindar waits for a year to get a spring crop, he not only loses all the benefit of the flooding, but even then will get nothing off his land if the season is abnormally wet or dry He therefore grows an autumn crop to be on the safe side If the rains are light, he has utilised the winter flooding and got a crop off his land—possibly a very good cotton crop if not, he only loses his seed, and can sow wheat

The chief difference in the case of unirrigated land is that more rest is required, and even with favourable conditions a spring crop could not be grown regularly year after year on the same field. Cultivation is too dependent on the rainfall to admit of any definite system of rotation being employed, but beinar and gothm, the two chief crops, are as a rule grown on land that has lain fallow for two harvests. The following is the rotation which the zamindars say is best, but actually it is very rarely found.—

Autumn.	Spring
Juar	Fallow
Cotton	Fallow
Bajra	Dofash gram.
Bajra.	Fallow
Fallow	Bejhar

If this system were adhered to there would be a much larger area under autumn than under spring crops, of course the preponderance is this way, but the proportion is not so great, the reason being that with an uncertain rainfall and insufficient cattle it is impossible to get the fields always under a crop, but if the conditions look likely to be good for a spring crop, every effort is made to use all the available fallow land. As regards the crops grown, bejhar is by far the most common spring crop. As a rule two parts of barley are sown to one of gram, the total amount being 25 or 30 sers Gochni is only grown on the lowlying land that gets some additional moisture Sarson is sown in the lines of these two crops Gram is also a popular crop If there are good September rains, it is sown as second crop after bajra, if the rains are light, it is put in fields that do not contain sufficient moisture to enable barley to be sown The crop neither requires nor it is benefited by very much rain but on the contrary is hable to be damaged by late winter rain with thunderstorms. I have not given any details of the number of ploughings, as this depends chiefly on the cattle available The land is so heavy that it cannot be ploughed too often, and the difficulty is to get the necessary bullocks, as the people are very badly off in this respect at present

22 The appended statement shows the areas under all the most important crops in the various circles at Changes of cropping. settlement and now In Taoru the apparent difference in the bajra areas is accounted for by the fact that pulses were not separately recorded then but were shown as bajra. The present total of bajra and pulses is 70 per cent so there has been no real change. The remaining figures are all very similar In the Dahar Circle the area under jowar has decreased, but the total of autumn cereals is considerably larger than before This is probably due to the recent bad seasons, and to the fact that the flooded area is smaller than it used to be Both these causes would tend to increase the area under autumn crops Cotton requires good rain at sowing time, and as this is not always available the increase has appeared in the cereals and not in the more valuable crop The settlement percentage of cotton looks as if 1, was an overestimate, but during village inspections I have frequently found that Mr. Channing has noted on the very fine crops of cotton grown in a village which now hardly ever produces any at all The great decrease in the area under wheat is also attributable to the same cause. The wheat area fluctuates according to the seasons, and we may safely say that neither set of figures represents a true average, the settlement figures being too high, while the present area is undoubtedly too small. It should be noticed that the present figures for gram include bejhar, for which no separate column has been allotted in the records. In the Bangar Circle the introduction of canal irrigation has caused a very real change in the cropping, which is hardly brought out by the figures. The area under cotton is almost the same although there has really been a great development since the advent of the This must mean that the area was very much over-estimated at last settle-On the other hand there has been a change in the jowar cropping which as rather hard to understand To some extent the canal is responsible, as there is not such need for autumn fodder as there used to be, and jowar does not answer on canal land, it is however clear that the settlement entries include chari, which was not recorded at all. The barra percentages show that it is not a case here, as it is in the Dahar Circle, of jowar being given up for bajra. percentage of wheat is small, but it is not grown on unirrigated land at all, and there is no flooding to speak of in this circle

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						ARF	A IN PE	RCENTA	GHS			
Assessment Circle	Harvest	Сгоря	Chahi.	Nahri	Abı	Dahrı,	Abı and Dahri	Chiknot and Narmot	Narmot	Mngda	Bhur	Total
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		Bajra	"	Ì			2 55		<b>7·0</b> 6	5 75	5 71	4 69
		Mung					1 07		8 46	1 48		İ
		Moth ,	1		'		1397		1371	11 90		l
		Guar							9 50	9 00	13 59	
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		Chari	12	7			95		<b>2</b> 30	04		07
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		Total area failed					12 11		12 84			
DI.		Total area sown	17	3	_	.	66 35		10 65	98 99	95 80 ———	84 54
Taoru		Wheat	70	4			6 58		1 41	-24	29	142
		Barley	42 1			1	8 13		6 42	3 87	175	8 69
		Gram	2	1			7 24		13 86	10 08	3 02	7 39
	Pabi	Sarcon	22	1	1		171		1 80	73	39	91
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	har	Total area Fown	61 :	-1	-	-	50 50		53 60	25 74	13 8	20 64
	Poth		- -	-	-	-	·			<b></b>		99 53
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		Bajra			3	11	1	25 84	1	33 00		1
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		1	iran		1	3		2.81	1	90		14 30			5 81	1 65	7 04
			Othe	r cereals and pulses	2.6	6		10 10	6	68		8 29			3 86	2 15	6 67
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			_	Total area sown	51	09		22 81	21	16		59 29			39 91	28 31	89 16
	9	82		Total area harvest	49	98		22 04	28	38		116 69			95 38	75 09	72 82
	Total of	arte		Total area failed	2	48		5 49	6	90		89 80	<u></u>		31 08	28 88	23 82
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## CHAPTER IV.—RENTS AND TENANCIES

23. The following statement shows the percentage on the total cultivation of land held by the owners themselves and by the various classes of tenants —

1	2	3	4	5	6	7	8	9	10	11		
	CULTIVA THE OV	TYERS	Held	BY OCCUI		ena (TS	HELD BY TENANTS AT-WILL PAYING					
Curcle	OR HEL	1	Cash	rent	Kınd	rent	Oash	rent	Kind rent			
	Sottlement	Now	Settlement	Now.	Sottlement	Now	Sottlement	Now	Sottlement	Now		
Taoru	62 2	60 9	12 6	117			228	24 3	24	31		
Dahar	70.0	<b>5</b> 63	71	68	1	,	215	25 9	13	110		
Bangar	63 8	62 4	71	90			29 0	21 6	1	70		
Total	66 0	59 7	81	87	04		24 86	23 8		87		

The above figures do not indicate any great changes in the proportion of land let out or in the character of the tenancies The Dahar Circle is the only one where the owners' cultivation has been seniously curtailed. The increasing popularity of kind rents throughout the tabsil also deserves mention features are the direct result of the bad seasons, though the latter is of quite recent growth, whereas the fermer can be traced back to the famine of 1878 Tenants are of the usual kinds The form of partnership on well lands in vogue throughout the district is extremely common in this tabil. If it becomes necessary to work the wells an owner is generally obliged to take in his tenants as partners, as otherwise he would not be able to afford the expense, nor probably has he sufficient bullocks In such cases no difference is made in a cash rent, but the rate for kind rents is lowered to 13rd The form of partnership is the same as in Rewari

24 Statement XI shows the rates at which kind rents are paid. figures indicate an overwhelming pre-Kind rents ponderance of payments at 1 on both unnrigated and irrigated lands In the case of well lands however the statistics are misleading. The explanation given above about partnerships shows how in the Dahar and Bingar Circles owing to the peculiar circumstances 1 miy be agreed on but not paid if the well is used In the Taoru Circle, where irrigation is regular, batai is most unusal on well lands that are being watered, but not nearly so rare in the case of well lands on which an unirrigated crop is to be grown difference is fairly represented by the areas in the two columns of \( \frac{1}{3} \) and \( \frac{1}{3} \), and when actual instances were examined it was found that the irrigation rate was On canal land the rate is 1, but it is usual to find that all always \frac{1}{3} and not \frac{1}{3} expenses are shared in the same proportion In the case of sugarcane cultivation this indicates a difference from the practice prevalent in the Palwal Tabsil, but it is merely a difference of detail The landlord is made to share in other expenses which were not included when the rate was 1, and the result is almost exactly the same I have accordingly adopted the calculations given in the Palwal Report The cost of cultivating an acre is Rs 22 and the canal dues as for this tabsil shown in paragraph 11 (b) amount to Bs 8-13-0 On all unirrigated land \frac{1}{2} is regularly taken, and a share of the straw as well, the tenant being expected to pay the kamins These conditions are extraordinarily severe In the adjoining Tijara

Tabsil of Alwar the figures given in section 115 of Mr. O'Dwyer's Report show that rates of  $\frac{1}{3}$  and  $\frac{1}{2}$  were taken in almost equal proportions. This however was the only tabsil out of the five dealt with in that Report in which this state of things existed, and the rate adopted for the Produce Estimate was  $\frac{2}{5}$ . As might be expected under these circumstances the area under produce rents is not large. It has however increased since last settlement, when both Mr Channing and Mr. Wilson found this class of rent almost unknown. The rate too has risen as the following table shows.

	1		2	3	4	5
			Half	Two-fifth	One-third	One-fourth
Settlement	211	 •	17 7		823	
жож	11		913	15	68	, 4

With such a small area it seems reasonable to suppose that only the worst land was so rented, and consequently a low ient was taken. At the present time there is a decided leaning towards produce routs. The tenants clamour for them because they have not had a really good harvest for so long, and when this does come it is certain that the landloid will try to get back a portion at any rate of the arrears of the land is cash rented. Probably the total amount so collected does not exceed \( \frac{1}{2} \) the produce, but the cultivator likes to feel that if nothing matures he will not have arrears of ient to pay in addition to his other expenses. Where the character of the soil is so even a slight increase in the popularity of a rent is sufficient to bring the better soil under its influence, and this in itself would tend to raise the rate and so retain the popularity of cash rents. Lastly, there is the influence of competition. Though population has not increased to any great extent since last settlement yet the poverty of which this is one sign has led to a good deal of mortgage, and there is now a very real scarcity of unencumbered land. The original owner must cultivate to keep alive, and as a rule he stops on as a tenant paying a high rent.

The result of all these influences has been that the area under kind rents is almost all paying at the high rate. I have therefore accepted it for the produce estimate, but it does not mean that the resulting standard would be a fair one to levy from the owners and occupancy tenants, who together cultivate 68 6 per cent.

There are no zabti rents at all in this tabsil, but as there is a small area under crops, for which as a rule a cash value is taken. I have made assumptions for the purposes of the Produce Estimate. The area is not sufficiently large to affect the general result, and the assumed values may be taken as fairly representative.

Cash rents

Paying cash rents

Sixty per cent of this is in the hands of tenants paying at other than revenue rates, and these form the basis of a cash rent estimate Mr. Changing in his Nuh Report section 26 says "Competition rents are very rare Seventy per cent of the lands held on cash rents are at revenue rates only, so that I have not been able to give much weight to the prevailing rent rates in framing my assessments. I have however selected a few villages in each circle in which rents other than customary seemed to prevail, and analyzed their rates." It is difficult to see exactly what plan was adopted. The average rents given by Mr. Chauning seem to be far below his rates, but when dealing with the various circles he compares an assessment at his assumed rates with that given by half the cash rents in the selected villages and the difference though still considerable is not so great as the figures in section 26 lead one to expect, while in the Taoru Circle the two sets of figures are almost identical. However no use was made of them in assessing, and it is more important to

note that at revision 6 per cent of the total cultivated area paid cash rents not directly dependent on the revenue rate at an average of Rs 2 per acre. This proportion has risen to 9 per cent, but the 60 per cent shown as cultivated by the owners includes a great deal of mortgaged land cultivated by the mortgagor at a high cash rent. The following statement shows the area paying a cash rent with the rate per acre at revision and yearly from 1891-92 to the present day:—

1	2	3	4	5	6
•			RAT	D ON	
Year	Area in acres	Rent	Irrrgated	Unuri gated	Total
		Rs	Rs v	Rs a	Rs a
189192	25,523	64,590			2 8
1892-93	26,940	69,553		•	2 9
1893-94	27,711	73,013			2 10
1894-95	. 28,301	76,380	4 0	28	2 11
1895 96	28,750	78,813	2 13	2 12	2 12 '
1896-97	28,817	80,372	3 10	2 10	2 13
1897-98	29,952	84,721	4 4	2 9	2 13
1898 99	29,979	89,192	4 11	2 11	3 0
1899-1900	30,112	88,654	4 9	<b>2</b> 10	2 15
1900 01	28,822	86,776	4 9	2 11	3 0
1901-02	29,077	92,415	5 8	2 11	3 3
1902 03	29,983	98,110	3 15	3 2	3 4
1903 04	29,980	96,673	3 15	3 2	3 4
1904 05	29,883	96,359	3 15	5 2	3 4
1905 06	30,316	<b>9</b> 8,985	3 12	3 3	s 4

The statement shows that a very extraordinary change has taken place during the past five years. Up to the year 1902-03 the e was a marked difference between the irrigated and unirrigated rates, but since then there has been a close approximation between the two classes. In the Dahai Circlathere is no difference now at all, and in the Bangar Circle the two rents are nearly the same. The regular well irrigation in the Taoru Circle has prevented in from being affected by this. The real fact appears to be that in the other two circles land is let out in May before it is known whether it will be irrigated or not, if it becomes necessary to work the wells, it means that the season is not good, and with the scarcity of bullocks and poverty prevalent throughout the circles the owner prefers to get what help he can from the tenant in working the well, and no extra tent is charged. Moreover, the owner knows that in a bad year the only chance of getting a crop at all is to irrigate the field, and unless this is done he will not be paid any rent whatever

Turning to the method of analysing the existing rents I quote the following description from the Rewari Report "The rents in sub-heads (d) and (g) of the Rent Statement are of course the only ones capable of affording data for a cash rent assessment These were first divided into mixed rents and the

rents paid on single classes of land, and each of these divisions was then further sub-divided into-

(a) Rents paid by mortagagors to mortgagees.(b) Rents paid by tenants-at-will to mortgagees

(r) Rents paid by tenants-at-will to owners.

(d) Rents paid by sahis to owners"

The majority of rents belong to class (c), and it is there alone that the genuiue competitive rents can be found in any quantity. Rents in class (a) were usually rack rents or else included a payment of interest on the loan, and so Those in class (b) varied a good deal sometimes they were had to be rejected exorbitant but on the whole they did not differ very much from those taken by owners. Those in class (d) were as a rule too low. The usual abnormal rents were met with and rejected at village inspections The usual kinds of Taoru Circle cash rents are not common, and no customary rate for land was admitted In the Dahar and Bangar Circles however it was usual to find a customary rate of Rs 2-8 or Rs 3 per bigha on all soils except blur, for Wherever kaller is found in a field to my extent which no such rate existed it was invariably regarded as a good reason for taking a lower rent, and if the field was really bad a very considerable difference would be made other hand with the exception of rack rents it was unusual to find the customary The result is that the total rents work out somewhat lower rate exceeded. than the customary rate though the latter is always used as a guide in determining the rent of average helds

Statement XV shows the area under true cash rents after the elimina-The tendency to be below the customary rate rather tion of abnormal rents than above it is slightly more evident. This shows that the proportion of rack rents rejected was greater than that of small payments by privileged tenants, and this is undoubtedly the case throughout the tahail present poverty privileged tenancies are rare Those who could have established occupancy rights, and the remainder have been forced to pay at the usual rate or else give up the land I do not think there is any doubt that the In the Dahar and Bangar Circles 1ents represent the true letting value of land the soil is most extraordinarily uniform in character, the only difference as a rule being one of saltness With such a large proportion of mortgagee's rents we may feel confident that good as well as bad land has been let out, and this in conjunction with the uniformity already noticed suffice to make the cash rents more representative of general conditions than the small proportion of land so rented might seem to warrant. By this I do not mean to say that the rents as they stand represent a fair letting value of land, and consequently a fair On the contrary I think they are far too high, but there basis for assessment is no doubt that any one wishing to let out an average field can count on obtaining a tenant at these rates, and similarly there is no doubt that a man wishing to cultivate a normal field will, unless special reasons exist to the contrary, have to pay at a rate closely approximating to that shown in the statement state of affairs has been induced by the circumstances of the tabsil The reasons which have led to the great increase in transfers have been already noted, but the effect of this upon rents cannot be too strongly emphasised small amount of land at their disposal, and practically no culturable waste to fall back on, the people have been obliged to sell and mortgage until each owner has a very small property left unencumbered A keen competition has been set up, and the owners-following the lead of the mortgagees-exact high cash rents for These rents obviously could not be paid in a bad year, and this was everywhere admitted by owners and tenants alike There are very few large owners in the tahsil, and hardly any of these keep accounts, but when inspecting the village of Hirantbala the Kayisth owners showed me their books to the Government papers the rental 18 Rs 3,136, but the average collections for 16 years are only Rs 2,360, or 75 per cent. The property 18 well and oarefully managed, and every effort is made both by the owners and their agent to keep up cultivation and get the maximum value out of it. As an additional incentive to this I may mention that in spite of bad harvests they have never been held to require any relief, and the full Government revenue has invariably We may therefore feel sure that no undue leniency has been displayed by them to their tenants.

The following table compares the rates of cash rents paid on the various classes of soil before and after the elimination of abnormal rents in the villages that have been inspected.—

1		2		3	   		4			5			6			7			8	
Circles		Rents	О	hah	ıı	N	ahr	1	1	Abı		Dahrı		1	Ва	Baranı		Bhur		r
			Rs	a	p	Rs	a	p	$R_{s}$	а	p	R's	a	p	Rs	a.	P	Rs	a	p
Taoru	{	Total rents Corrected rents	5 5	6 2	11 0				3	5 1	4 0	3 3	$\frac{4}{2}$	0	2 2	6 5	11 8	1 1	8 6	8
Dahar	{	Total rents Corrected rents	4 3	1 14	7				3 კ	14 13	1 0	43	0 15	1	44	4 1	6 0		9 10	7 0
Bangar	{	Total rents Corrected 1ents	44	7 6	7	3 2	4 12	11 0				2 3	<b>4</b> 0	0		8 4	7 4	1	12 11	0
Total Tahsil	{	Total rents Corrected rents		14 10	7	, -	4 12	11		13 11	<b>5</b> 0		15 14	11		6 5	9		15 14	8

The general result of the analysis has been to slightly lower the rate on all soils This is because owing to the scarcity of land there are very few tenants at privileged rates, while on the other hand the tendency towards charging excessively high rents is most pronounced The nahri rents, as I have pointed out elsewhere, are quite unreliable Practically all are paid in two large villages in which no change in the rate has been made in spite of the introduction of canal irrigation To have eliminated these would have meant that only a few acres of nahri rents could have been shown, and in neither case could the results have been accepted as a fair test of the rent of this class of land retained all these rents and only eliminated a few rents which were extraordinari-There can be no doubt that the rents have been falsified in ly severe both these villages and it is unfortunate that there are not enough cash rents elsewhere in the tabsil to give an idea of what the proper rate should be I have neglected the nahri rents altogether and am applying the chahi rate to the nahri area for the purposes of the cash rent estimate. Unfortunately well arrigation in this circle is inferior and the result is that the cash rent estimate Chiknot, narmot and magda have been classed together as baiani is unduly low as the differences between the various rates are so slight as to be negligible

#### CHAPTER V -HALF-NET-ASSETS BASED ON BATAI

The years selected for the produce estimate are the years 1898-99 to 1903-04 excluding the famine year 1899-1900. The spring harvests have been almost uniformly bad, but the matured percentage of the five years is 87, which is only slightly below that of the 21 years. The character of the harvests is given below.—

Kharif 1898—The monsoon was delayed, but there were fair rains in July and August, which allowed sowings to be made Unfortunately the September rains failed, and the harvest was not so good as at one time appeared likely.

Rabi 1899 —A fairly large area was sown but the winter rains failed, and the harvest was not good. A little rain in December and February saved the situation, and eventually the harvest was about average.

Aharif 1900 —There were abundant monsoon rains, very well distributed and the harvest was consequently above the average

Rabi 1901 — The rains in September and October were favourable for sowings, and a large area was got ready. Conditions were good throughout, and a splendid crop was obtained.

Kharif 1901.—Good sain in June permitted extensive sowings to be undertaken, and with moderate conditions in July and August the prospects were good. The failure of the September rains however altered the position, and there was eventually an average harvest

Rabi 1902—Sowings were rather restricted, and as no rain fell between October and April the result was disastrous, the failed area being almost as large as that matured. The conditions were especially unfavourable for the Dahar Circle, but even the Bangar Circle with canal irrigation suffered heavily, while Taoru was only better because practically nothing but irrigation was attempted

Kharif 1902—A good harvest—In both the Taoru and Bangar Circles the amount of rain was sufficient, and though the Dahar Circle would have been better for a little more the actual area matured was large, and the percentage on sowings unusual for this tahsil

Rabi 1903—Sowings were not so large as might have been expected with good rain in September and October, but the crop as a whole did moderately, except in Taoru where the failure on uninigated land was very heavy. The winter rains were below the average and the harvest may be characterized as rather poor.

Kharif 1903—The rains came a little late, but were on the whole favour able for sowings, which were consequently above average. As in 1898 the September rains failed, and owing to the late sowings the damage was severe. In the end the harvest was rather below the average.

Rabi 1904.—Sowings were somewhat restricted, and as there were no winter rains the crop looked like being a total failure. A good fall of rain in March just prevented this, but the unirrigated harvest was very poor throughout the tabul.

The harvests may be summarised as follows -

	1	2	3
		Kharif o	Rabı
1898-99 1900-01 1901-02 1902-03 1908-04		Average Fair Average Good Below average	Average Very good Poor Poor Bad

27. The failed area returns made by the patwars seem fairly reliable, except in the case of the Bangar Circle where owing apparently to the way in which no kharaba has been granted on nahri lands, there has been a distinct tendency to under-estimate the amount of failure. The average kharaba for nahri lands for the years selected for the produce estimate is only 15 per cent, the figures being—

				Acres
Matured				17,185
Failed	**		•	267
Sown		•		17,452

The failed area percentages in the various circles are given in the table of leading statistics in Chapter I of Part III. The small unirrigated proportion in Taora is due to the fact that the soil being light and hardy requires less rain. Moreover bajra is the principal crop and the failure is consequently less than in those parts where unirrigated rabi crops are attempted. I have therefore made no further deduction although 15 per cent is very small. In the Bangai Circle both the irrigated and unirrigated percentages are too small and I propose to increase them by 10 per cent. The percentages will then be—

Imgated

113

Unurigated

28

The difficulty of correctly estimating the proportion of jowar and char has been noticed in the reports on other tahsils, and exists here also. At present jowar is regarded mainly as a fodder crop, and many fields are sown rather more closely than is advisable for a jowar crop with the result that the grain suffers, and the outturn is poor. It is hard to determine how far this is due to the drought, certainly there is now a tendency to regard a fodder famine as probable, and to take every precaution against it. Moreover the jowar crop has not done at all well of recent years, and it is not by any means popular as a grain crop even in the Dahar Circle.

Statement XII gives the data on which the assumed yields are based, Paragraph 31 of the Rewari Report sets Yields. out the reasons why the crop experiments in this district have not been very reliable. In the Nuh Tahsil the evidence of crop experiments would never be satisfactory, as the harvests tend to be very much above or below the average, with the result that the selection of fields becomes At last settlement a number of experiments were made withextremely difficult out any reference to the character of the harvest under observation, the object being to get a large number of outturns recorded and strike the average open to the same objection that the result is liable to be either above or below a true average. The people themselves give estimates which as a rule seemed to me fair, and I have generally accepted these yields as correct when the same estimate is given over a large area in different villages. A glance at the statement of matured areas will serve to illustrate my meaning. The average matured percentage for 21 years is 90.7, but during that time the number of years in which the matured percentage is either above 100 or below 80 is 14, while only once has a harvest approached within one point of the average. Unfortunately the situation of the Nuh Tahsil does not admit of much useful comparison with The Tijara Tahsil of Alwar State adjoins the Taoru Circle and outside districts seems to correspond fairly with it, but the remaining tahsils of Alwar do not The Dahar Circle is the one in which the variations of the seasons afford any help are most prominent, and for this no satisfactory comparison is possible

I now proceed to discuss the various yields assumed for the produce estimate

This is not an important crop except in the Dahar Circle, where the soil is

Kharif Crops.

Suited to it, and the outturns on flooded

(a) Jowar 9 per cent land are sometimes very good I have
taken 280 sers on irrigated and flooded lands in the Dahar Circle, and 240 sers on
these lands in the other two circles. The outturns for barani are 220, 200 and
140 sers in the Dahar, Bangar, and Taoru Circles respectively, and for bhur 160,
140, and 120 sers

Bajra is the great autumn cereal, and is especially suited to the light lands of the Taoru Circle where practically nothing else is grown. Very little is irrigated, and I have assumed 280, 240 and 200 sers in the three circles, the barani outturns being 200, 180 and 140 sers. On bhur lands I have taken 180 sers in the Dahar Circle, 160 in Bangar and 140 in Taoru.

The yield of all the pulses is difficult to ascertain with any accuracy, as they

(c) Pulses 14 per cent are practically never grown alone I have made no difference between the various soils or circles, the outturn of mung being 140, and of mash and moth 160 sers. For guar I have assumed a cash rate, while chaula has been put at 160 sers throughout the tahsil, and til at 120

Cane is only grown on canal lands. It is not very popular, and on the whole the outturn does not seem to be good 800 sers is as high as we can safely go though larger estimates are frequently given. A little baianic and has been put at 480 sers.

This is a most important crop the yield of which is very hard to fix for many reasons. In the first place it is almost impossible to tell what is going to be an average field. This has led to an exceedingly high estimate of the

outturn of cotton, as the experiments have been probably above the true average. The usual reply given by the zamindars is that the outturn is 200 sers on all except the worst lands including canal crops. This is not quite accurate. As far as I could judge canal fields are usually better than unitigated, though of source the chief advantage of the canal cotton crop is that it enables the farmer to hedge against a total failure. The crop is sown earlier than the unitrigated, and is ready about September; consequently heavy late rain is not needed, whereas for the unitrigated crop it is essential. It is not possible to get a good canal crop and a good unitrigated crop in the same year, as one of the other is bound to suffer. The general assumption (borne out by the five years' average and the rainfall statement) is that dry years predominate and for this reason alone we might fairly put the nahri yield higher than the unitrigated. I propose to take 200 sers on chahi, nahri, and flooded lands in the Dahar and Bangar Circles, and 160 on the baram and bhur; the light Taoru lands are not so well suited to cotton cultivation, and I have assumed 160 sers on chahi and flooded lands, 120 on unitrigated, and 100 on bhur.

Wheat is not nearly so popular a crop as it was at last settlement RABI CROPS

(a) Wheat & per cent well lands it is very little grown have assumed 520 sers in Taoru where it is carefully cultivated, the Ahirs being the only people who grow it to any extent, in the Dahar Circle I have taken 440 sers, and in the Bangar 400. abi and dahri wheat of the Dahar Circle I have put at 400 sers It is only grown on the very best land, gothun being the regular crop on the average land a good year the outturn is very much higher than this, but I do not think it would be safe to assume a higher average On the barani lands I have taken On canal lands the crop does well, but the outturn 240 sers and on bhur 140 I take 360 sers on both nahri and abi land in the Bangar Circle is never high and on abi in Taoi u On the Taoru dahri which is somewhat inferior I take 320 The Bangar barani is superior to that of Taoru and I take 240 sers in the . former against 160 in the latter, the bhur outturn being 140 in both.

In the other circles it Barley is the staple well crop in the Taoru Circle is not grown to the same extent, owing Barley 11 per cent to the peculiarities of well irrigation For Taoru I have taken a yield of 640 sers on chahi and 280 on abi and dahri. The unin rigated crops are poor in this circle, and I only assume 180 sers on barani and 100 on bhur. In the Dahar circle my yields are 460 sers on chahi 360 on flooded land, 320 on barani, and 220 on bhur, while in the Bangar Circle they are 500 sers on claim, 440 on nabri, 300 on abi and barani, and 200 It will be seen that my yields for this crop differ considerably from those adopted by Mr Channing at last settlement not only in the various circles but also and more particularly in their relation to each other. I am convinced that it was wrong to suppose that the chahi outturns in the Dahar and Bangar Circles were higher than those in Taoru, where the well cultivation is much more On the other hand there can be no doubt that the unurrigated crops are better in those circles than in the light Taoru land I have given a lower outturn for barley than wheat on flooded lands because neither barley nor bejhar are grown on land that has received a proper flooding, and the sign that a field has benefited by the floods beyond the ordinary burant land is that it is possible to grow wheat on it instead of barley. The result is that flooded barley is little better than unirrigated while the wheat is very superior

Gram is not an irrigated crop at all. It is sometimes mixed with wheat or barley on well lands, the original intention having been to grow the crop without irrigation, and water being only given as a last resort. On causal lands it is grown as a second crop after cotton and then a little water is often required, but the result is no better than on unirrigated lands. The difficulty in fixing a yield for gram is that no separate column has been given to be that in the registers, and consequently the area shown as being under gram includes that grown on fallow land and the defash gram sown after bajra. However, when defash gram is grown to any extent it means that the conditions have been favourable, and the outturn is generally good, so the difference is not so great as might have been expected. Mr. Channing's rate of 400 sers per acre in the Dahar Circle

seems to me too high for an all round rate, though on the best lands more than this is frequently obtained. In the Taoru Circle I have taken 340 sers on chah, 320 on flooded lands, 200 on barani and 160 on bhur. The unirrigated rates are if anything a little high, but gram is only grown in Taoru when conditions are particularly good and the results are better than might have been expected considering the light soils of the circle. In the Dahar Circle I have made no difference between the chahi and unirrigated outturns as gram is not an irrigated crop. On flooded land however it does well and I have assumed 360 sers there against 320 sers on chahi and unirrigated. Practically, no gram is grown on bhur, and when it is it usually means that the field possesses some distinct superiority, and I have therefore taken 240 sers. In the Bangar Circle I have taken 400 sers on chahi and nahri, 280 on abi and unirrigated, and 220 on bhur.

Oil-seeds are very little grown in this thasil Sarson is grown in the lines of bejlar and gochni crops, and tara similarly in the lines of gram fields. I have taken 160 sers on unirrigated land, 140 on chahi, nahri and flooded, and 120 on blui throughout the tabsil except in the Taoru Circle where neither crop is much grown and 140 sers sems enough on unirrigated as well

No zabti rents are found, but as there is a small area under crops for which a cash value is usually demanded.

(e) Others 9 per cent.

I have assumed the same rates as are

found in the rest of the district

The invariable custom in this tabul regarding straw is that the landlord takes the same share of the straw as he does of the produce. However with the scarcity of grazing prevalent throughout the tabul it usually has to be consumed for fodder, and practically none can be sold. I have therefore included it in the gross produce estimate, but have omitted it from the net assets calculation.

The outturn of straw has been assumed to be three times that of the grain for jowar, twice for bajra, and one-and-a-quarter times for wheat, in all other cases it has been supposed to be equal to the grain. The value of the straw of rabi cereals and jowar has been fixed at three annas per maund, that of the other kharif crops and gram being put at two annas. The straw of oil-seeds is of no value, and has consequently been neglected.

29 The sanctioned prices of the present settlement are given below in annas per maund, and compared with those of last settlement.—

1	2	3	4	5	6	7	8	9	10	11	12	13
	Jowar	Bajra	Mung	Moth	Til.	Свпе	Cotton	Wheat	Barley	Gram.	Sarson,	Taramira
Prices at last settlement	17	19	21	18	<b>4</b> 3		49	24	17	18	32	22
Sanctioned now	20	23	30	22	60	45	64	32	22	23	45	32
Rise per cent	18	21	43	42	<b>4</b> 0		31	33	29	28	41	<b>4</b> 5

Mr Channing's prices were the average of the 20 years 1854—1873, while the present ones are based on the harvest prices of the last ten years extracted from bannias' books. The sanctioned prices are for the whole district. Mr. Hamilton in his Preliminary Report commented on the fact that there was no difference in the Nuh Tahsil in spite of its isolated position. The reason of this appears to be found in the practice amongst the Meos of borrowing money on a crop before it is grown, if it fails the borrower has to pay the full market value of the crop, though of course the money was lent at a very much lower rate. This has tended to inflate the harvest price of crops to the detriment of the farmer. The all round rise according to the method of calculation given in

paragraph 326 of the Settlement Manual is 24 per cent. Bajra is the only crop which attains a high percentage, but the rabi crops wheat, barley and gram taken together are responsible for practically the whole of the spring demand, and cotton with bajia for the autumn. As has been pointed out in the other reports the effective rise in prices is not of much importance as the assessment is being based on cash rents.

30. The area available for grazing is very small throughout the tahsile and what there is produces such inferior grass as to be of very little assistance. Cattle are therefore almost entirely stall-fed, and large fodder deductions are necessary. Charm and gowar are fodder crops and as elsewhere will be entirely neglected.

Apart from these regular fodder crops it is difficult to determine what proportions of the various crops the tenant would be allowed to cut for fodder, as Undoubtedly large deductions would have the area under kind rents is so small to be made, and I accordingly make the following assumptions Irrigated jowar is regularly cut for fodder and may be entirely neglected, but the case of unirrigated lower is more difficult. In Rewari 50 per cent of the lower grown on magda and blun was deducted, while in the Tijara Tahsil of Alwar Mi only deducted 12 per cent. I propose to deduct 25 per cent. on all soils in this tahsil, and 20 per cent of the pulses which though not grown for fodder are readily sacrificed to make room for a rabi crop All sarson on irrigated land should be deducted, and 20 per cent of the remainder, as though a valuable crop it is exceedingly delicate, and is in consequence largely cut for fodder cent must also be allowed for the barley that has to be given up These deductions are considerably more than those granted in Alwar, but with a salt soil and practically no grazing I do not think that they are excessive

31. Menials' dues are invariably paid by the tenant and not from the com
Menials' dues and hired labour mon heap There is therefore no deduction to be made on this account, but
when assessing some account must be taken of the very large area cultivated by
the owners themselves, as on all of this the expenses of menials' dues have to be
met by the person who is responsible for the land revenue

The only crops for which hired labour is invariably required are cotton and cane. Cotton pickers get 10 per cent, cash payments being practically unknown. For hoeing cane fields I propose to deduct Rs 3 per acre as in Palwal In all other cases the Meo relies on the assistance of his own family and no hired labour is required.

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The question of the true proportion of the failed to the matured area has already been discussed in paragraph 27 As proposed there 10 per cent will be deducted in the Bangar Circle

34 The landlord's share of the produce on the various classes of soil

was stated in paragraph 24, and is shown
in percentages in the following table.—

Irrigated Chahi 53j

Unirrigated . ... 50

As in the case of unireigated crops, no further deduction has to be made, the Government share is half that of the landlord's. The same is true of chali in all circles except Thorn, where the share is 31% per cent, owing to the deduction referred to in paragraph 32. On nahri land the landloid pays half the cost of the seed as d half the canal dues, and in the case of cotton he shares, the cost of the picking, while in the case of cane there is the cost of cultivation to be taken into consideration. The details of this have been given in the Palwal Report. For purposes of reference I give them again here—

			Rs	u	P
Co t of reed .			9	O	0
Source of cost of homing	••		3	0	0
Hire of the press			5	0	0
Pay and food of the shoka and taria		•	7	12	0
	Total		24	12	0

To read unduly complicating the produce estimate I have worked out separately the value per acre of each naturation, and to obtain the total value of the Go maintent shall it is only necessary to multiply the area by the value per acre. The exists per acre are obtained by working out the value of a matured acre of each crop (less fodger allowance, rule paragraph 30) at the yields assumed as paragraph 28, and the sauctioned prices given in paragraph 27. After deducting the value of the seed sown, the canal does, and the expenditure mentioned in paragraph 31, the Government share is one-fourth of the remainder except in the each of case when it is one-sixth.

The gross produce and half-net-asset estimates are worked out in detail in Surment XIII—Before abstracting the results here it is necessary to make the allowing on the Bangai Circle for the serious under-estimate of kharaba alluded to in pararoph 27. In the following table the extra deduction of 10 per cent mentioned there has been made—

It will be seen that the half-net-assets in all circles is considerably higher than the value of  $\frac{1}{6}$  of the gross produce. This is due to the high rate of batan prevailing on unirrigated soils. In Alwar Mr O'Dwyer assumed a rate of  $\frac{2}{5}$ ths, and this would probably be a fair rate here also.

## CHAPTER VI.-HALF-NET-ASSETS BASED ON CASH RENTS.

The results of the examination of cash rents have been described in 35 paragraph 25 It only remains to decide Deductions and half-net assets rates what share of the corrected rents may be taken as equivalent to half the net assets. In the Taoru Circle, which closely resembles the Rewari Tahsil, I propose to make the same deductions as those detailed in paragraph 37 of that report. In the Dahar Circle the case is quite The lent rates are high, and owing to the precariousness of the cultivation the proportion that is unrealisable over a series of years is extraordinarily large I do not think that the position disclosed by the Hiranthala owners' account books is in any way abnormal, on the contrary everything goes to show that efforts have been made to keep collections up to the highest possible pitch, as there is no doubt that the owners have lost heavily owing to the way in which the full demand has invariably been taken from them. This indicates a loss of 25 per cent on the declared rental, and I propose to make this deduction It is more difficult to decide what should be done in the Bangar Circle only are there no accounts to help us, but the nahrr rents are so obviously unrehable that the whole value of the rents is to a great extent discounted Under these circumstances it seems best to treat the naturate as equivalent to the chahi rate for the purposes of the cash ient estimate. As to the amount of the deduction to be made, the circle seems to me to be about half way between the Dahar and Taoru Circles in the matter of collections, and I accordingly propose to deduct 15 per cent. from the rental The half-net-asset rates and Jamas accordingly are as follows -

·											
1		2		8	4	5	ı	7	8	9	10
Gircle		Detail		Ohabı	Nahr	Flooded	Barani	Bhur	Total cultivated	Present assessment	Increase por cert
đ	Rate		Rs	250	1	1-7 0	120	0 10-6	138		
Тлокт	Aren		Acres	5,385		1,685	26,149	7,946	41,165		
E*	Amount		Rø	12,452	•	2,422	29,418	5,215	49,507	86,501	85
DAHAR	Rate Area Amount		Rs Acres Rs	1-7 3 2,886 4,194		1 7 6 26,328 38,669	89,698	8,478	77,885		
BANGAB.	Rate Area Amount		Rs Acres Rs.	1 13-9 4,876 9,086	28,278	1,028	50,929	6,879	,	1,00,360	17
Torse	Rate		Rs.	1 15.4		1			1 6.9		
755	Amount		Re	25,712		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•	2,05,535 2,92,849	2,38,112	23

The results given by the each tents are invariably lower than these of the produces or rate. This is of course due to the both rate, which, as I pointed out rlya de long with the abstract of the produce estimate, is too severe for this taked. In the I'm in and Dahar Circles the results of the cash rents give in my open at a very full nati-net-asses jumn. In the Bungar Circle the result is vitited by the nature tenes, which are ridiculously madequate. I have previously sign to that the chalu rate should be assumed to apply to the natire area in order to correct to some extent this false result. If this be done the nehri jema is rosed to Re 43,273, and the total jame to Rs 1,80,623 Ever that is not sufficient, because the produce estimate shows that the nahri land is distinctly more valuable than the chahi, taking into consideration the difference in the proportions of irrigation. This is exactly what would be expected, as the Bingir chahi is inferior, whereas the nabri, though not so good as that in the I'nly il Tahal is still a very good irrigated soil, and one that is parficularly useful or recount of the inferiority of the chalic irrigation. The half-net-assets maker commit rate in Palwal is Rs 2-12-0 and in Piropur Re 1-12-6 bibly fairly correct to assume that the Bangai Circle stands about midway h tree these two. This indicates a rate of about Rs 2-4-0 for nahri, and if the assumption be made, the cish rent jama will be rused to Rs 1,37,714 which is a furly close approximation to the produce estimate figures. The different would then, as in the other circles, be attributable to the rote of

# PART II.—FISCAL AND MISCELLANEOUS.

## CHAPTER I.—FISCAL HISTORY.

36. The tahsil, as at present constituted, contains 289 villages of Parganas Nuh, Taoru, Hathin, Sohna, Bahora and Palwal. At last settlement there were 311 villages included in the tahsil, and the present numbers are the result of a redistribution carried out by Mr. Channing. The history of the various parganas after annexation is given in paragraphs 8 to 15 of the Nuh Report. Some were farmed out for short periods, but in all cases as soon as settlements were arranged a very heavy Summary Settlement was fixed which proved too much for the people—Pargana Taoru broke down and several reductions had to be granted, while all the other parganas were more or less distressed. In 1841 Mr. Barnes resettled the whole of the present tahsil, and finding a state of almost universal poverty he granted large reductions, which had a most beneficial effect. The jama of the Taoru, Hathin and Nuh Parganas, and of the Bahora, Sohna and Palwal villages was reduced by him from Rs 3,11,697 to Rs. 2,37,448. In the case of the Bahora villages apparently no re-assessment was made.

Mr Channing quotes Mi. Fraser as speaking well of the working of all these settlements, but owing to the destruction of records in the mutiny no detailed account of the working up to 1857 could be given However there seems no doubt that the general condition of the people was good.

The second Regular Settlement was begun in 1872 and completed under circumstances that are well known Second Regular Settlement 1883. Mr Channing found everywhere signs of great prosperity, and partly owing to the fact that the seasons at that time were particularly favourable, he was led to impose a heavy increase on the tahsil In summing up the position as he found it, Mi. Channing notes that the assessments were the result of reductions in the past amounting to 27 per cent., while on the other hand cultivation had increased by 42 per cent, and the value of produce even at a low calculation by 11 per cent Irrigation had developed, and the increase in population was proportionate to the increase in resources. Transfers were light on the whole, and except in inundated tracts the revenue demand had been paid with great regularity. Mr Channing based his proposals upon the results of his produce estimate. Except that the outturns in the Dahar Circle were rather high owner to the control of the state of the light owner to the control of the state of the light owner to the control of the state of the light owner to the control of the state of the light owner to the control of the light owner to the control of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of the light of high owing to the abnormally good seasons, and were applied to the whole area cultivated during the year of measurement, there is nothing to which exception can be taken in the produce estimate. The value of the gross produce of the whole district as calculated in Form D was Rs 21,48,038, one-sixth of which is Rs. 3,58,007 The total given by the circle rates was Rs 2,72,385 and the jama actually imposed was Rs 2,59,984 This, however, is only for the present 289 villages, and therefore no comparison with the assessment made by Mr Barnes is possible, but the increase was fairly considerable The settlement broke down almost immediately, and Mr. Wilson was appointed to carry out a revision of the demand in 1882 The plan adopted is clearly explained in the Revision Report printed with the Gurgaon Settlement Report, and I do not propose to add to what has already been said there The result of these proposals is given in Appendix II of Mr Wilson's Report and shows a permanent reduction of the demand to Rs 2,41,584, with an additional reduction of Rs 28,187 for seven years. These proposals were sanctioned, and it is with their working that we are principally concerned now. In the Taoru Circle the expiring settlement has worked very well, though the average collections are only Rs 31,124 against a demand of Rs 36,501, or 85 per cent. In the Bangar Challette against a demand of Rs 36,501, or 85 per cent. Bangar Chicle also, owing to the introduction of irrigation from the Agra Canal, the general condition of the people is good, but the individual circumstances vary The portion which is now benefited by the canal was originally the worst in the circle, and consequently was lightly treated. The result is that now we have part of the circle lightly assessed with all the benefits of irrigation to be

siter its conact, while the remander, which was not so len eatly treated in the first moterer, his suffered uning the pict dry years. Still even here there is to real discoss, and on the whole the new asment has worked very well or war carle to me amount to Rs 57.145 regards a demand of Rs 1,00,860, or 8, proper As the new and in constructions has always been collected in full are been there exists a shows that in the unirigated portion of the circle tipe I did if I had any been required. Turning to the Dahar Circle the first in the whole I would call attention is the change introduced by Mr Channing in the first and assessment of the person now from a Chak that The Tings - also I nd- were hable to flooding from the waters of the Kotala dlal to the part of with a fluctuiting assessment. The conditions have altered The enormous fluctuations in caltivacounterfally smea Mr. Chinning's time ton, which ere then caused by sabmersion, ore now due to drought, but the the time the arm. At the time of revision some modifications in Mr. Christing's plays als were sanctioned, allowance being made for fulfits, and revenue only I the from here tell crops. This system is most popular, and indeed it is account to imagine what could have be present if some such system had not Is non-force that sale people nie very poor, and the large nier out of ed rationships that the are unable to fully develop then resources. In parar ph 62 of the Revie on Report Mr. Wilson has worked out the inverage fluctu-From we as me of Re. 8,586, but the everage since 1883 is only Re 3 487. The re in more in the case of fired resemble are given in paragraph 18 of the Revision R per thal amount to Rs. 11,661, the jame coming to Rs. 1,03,236 against Le 1.1 of 7 amp od by Mr Channing Maling illowance for the difference due to the introduction of the fluctuating aspessment, this was an increase of about R 10,000 on Mr Burnes' as essent nt, but even this has proved too much for the propile to pry Collections have amounted to 84 per contismed 1883, which " dense execute the same as in the other circles. In other respects, however, Gord is no comparison between the three circles. The Daher Circle is infinitely too para t, and in spite of the drawnge schemes, which it was thought would is appearent- condition considerably, there can be no doubt that the account given b. Ir. By no cand quoted by Mr Channing in paragraph 11 of the Nuh Report is In the copie cable to the Dahm Circle at the present time. This is I think almost employees endener that this circle council stand a heavy assessment, and is not related to deterior to under lement treatment. Mr. Barnes found the tract "rum is sent deal from the service cummury assessments that had been import, and by jude one reduction of the demand not only soved the circle from turber to the areadly cosmed a far amount of prosperity during the whole source of his settlement. The position was not quite so good as appeared to Mr County, bear, the period of settlement was abnormally presperous for - to " section dependent on the randall. Still the erea mortgaged was and the people very be no reasons for all Nov the decre on cattle, and the very serious extent to she be transfer have taken place includes real poverty, which a good serious of the respective to the North and the present position is abnormally that it is not desirable action for the present position is abnormally that it is not desirable action for the present position is abnormally that it is not desirable action for the present position is abnormally that it is not desirable action. I ly the attraction mails greated but actions at, but there is the greated for the title of the modes consinue were off very quelle, where it is a substitute of the people for a long time. More than the set of the first settlement slews the fotal results of an entire of the first settlement at the track of the varieties of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settlement of the settleme

The appended statement shows the suspensions, remissions and collections of revenue during the last 21 years in percentages on the average khalsa demand.—

1	2	3		4	5	6	7	8	9	10	11	12	13
		ABGEUS.	87018			,	Вемія	BIONB			Collections	,	
Tear.	Taora	Dahar		Uangar	Total	Taoru.	Dahar	Bangar	Total	Taoru	Dahar	Bangar	Total
1895-86			108	02	<b>4</b> 6		108	02	46	95.9	87.6		94 ]
1886-87										97:8	Fixed \$9.9 Fluctuating 5.1 97.3	l	95 1 5 1 95 6
1887-88			64	004	27		64	-004	2-7	93 4	Fixed 99 8 Fluctuating 9 5 84 3	92.5	96 7 9 8 89 1
1838-89										978	Fixed 863 Fluctuating 134 90.0 Fixed 916		90°0 13 4 91 5 92°2
1659 90	<b>3.</b> 8		3 5	1	<b>4</b> 5	•				97 8	Fluctuating 33 6	1015	33.6 99 5 97.1
1690-91		Fixed	2·6 2·7		11 11					1045	Fluctuating 294 5 106 8 Fixed 105 0	101 8	294 5 104 <del>1</del> 103 6
1891-92		Fluotuating	3 1 4 2		9 6	٠.,	10		4	101 9	Fluctuating 1710 1106	101.8	171 0 105 6 103 7
1892-93		Fixed Fluctuating	-		°07 44 5 5	••	***			101 6	Fixed 1063 Fluctuating 2649 1042 Fixed 1013	1017	264 9 102 8 101 5
1893 94			16		-77		12		5	101 6	Fluctuating 210 2 101 1	101 7	210 2 101 4 101 3
1894-95			7:6		2.2	•	9.3		8 1	101 6	Fluoteating 125 0 93 8	1010	125 O 98 8
1892 98			<b>6</b> s	-2	3 0		د 1.6	03	7	101 6	Fixed 943 Fluctuating 757 93 5	101 5	98 6 75 1 98 0
1696-97		Fixed Fluctuating	65 159 54		2 0 15-0 2 4			3		101 6	Fixed 95 4 Fluctuating 24 5 100 4	101 5	28 9 34 5 101 0 101 2
1897-08							13		5	101 6	Fluctuating 85 5 109 2	102-3	85 S 105 <b>3</b>
1598 09		3	10 a	10	4.9					100 8	Fixed 106 5 Fluctuating 204 9 89 8 Fixed 91 7	100-5	104-0 204-9 95-0 96-9
1899 1900	76		<b>80</b> 3	49-2	66.5					25 6	Fluctuating 22.6	52 5	22-6 35-0 35-3
1900-01			6.1	8	27		5.8		2.4	15 4	Fixed 21.6 Fluctuating 11.1 116.2	122 4	11 I 124 4
1901 02	5-		38-3	10-5	21 2	20%	75 2	25-9	47 5	99*4	Fixed 1170 Fluctuating 69-2	92.5	124 8 83 3 83 7
1902-03			9.6	21	5~0					105 1	Fixed 60 8 Fluctuating 47 1 107 5	1057	471 1065
1003-04	1	3	22-5	77	13 1				Į	101.4	Fixed 108 5 Fluctuating 70 6 81 5	24 1	107 3 70-6 98-7
1904-02										1042	Fixed 81-0 Fluctuating 100-7 105-9	7115	ns-6 1007 1165
1905-06	11.	o	57:	32-2	20-2		2-1		1-0		Fixed 1202 Fluctuating 2190 442	1	115 6 219 0
-											Fixed 44 6 Fluctuating 25 4		

The remissions in 1901-02 were on account of the Coronation, and 1905-06 were of sums outstanding for more than three years

The amount under suspension at the end of Rabi 1907 was as follows .-

	1	2	3	4	5
		Taoru	Dahar	Bangar	Total
1 2	On account of previous years Do 1905-06	3,799	23,075 56,696	2,915 31,924	25,990 92,419
3	Total	3,799	79,771	34,839	1,18,409
4	Proposed for recovery with rabi instalment	1,459	15,592	14,528	31,579
5	of 1907 Proposed for remission (rabi 1907)		8,960	132	9,092
đ	Total proposed recoveries and remissions 🚨	1,459	, 24,552	14,660	40,671
7	Balanco outstanding	2,340	55,219	20,179	77,738

All unrecovered balances existing when the new demand is announced should be remitted

#### OHAPTER II.—MISCELLANEOUS.

The total population at the last census was 145,931 Separate figures for the children of each tabular are not available, but taking the average of the whole district the figures are—

1	2	3	4	
Detail	Males	Females	Children under ten (excluding infants)	
Urban Rural	8,864 46,578	8,160 42,805	3,968 20,835	

Infants have been estimated to number 10 per cent of the total population. The diet of the zamindars of the district has been described in the Rewari Report. I do not think that any changes need be made for this tahsil, and shall therefore adopt the same scale of diet as was assumed there. For purposes of reference it is shown in the following table.—

1	2	3	4	5	6	7	
	Males		Feu	ALES	Cuildren		
	Chataks per diem	Maunds per annum	Chataks per diem	Maunds per annum	Ohataks per diem	Maunds per	
Urban Rural	10 12	53 7	S 9	43 5	6	3 ¹ / ₂	

The total annual consumption is therefore 714,569 maunds. The yield of food grains is given in the detailed produce estimate, and the tabul totals in maunds, after making the fodder deductions shown in paragraph 80 are as follows—

Jowar	••	60,622	Chaula		11,978
Bajra		239,847	Wheat		59,792
Marze		1,209	Barley		166,340
Mung		12,446	Gojra		. 12,623
Mash		1,707	Gram		127,236
Moth		6,516	Gochni	• •	47,832

Except in the case of wheat, the amount of seed sown, and the failed area percentages may be taken to be the same as in the Palwal Tahsil. The large flooded area sown with a wheat crop, and the peculiar system of well irrigation must be taken into account, and I have therefore allowed 20 per cent for wheat as for barley, and also for the mixtures. The deductions for conversion into flour are given in the appended table:

Jowar Bajra 11 per cent. | Wheat Pulses | 5 per cent. | Barley, 10 per cent. | Mixtures |

The result of the above calculations is tabulated as follows:-

1.	110 10	omio o	1 0110	above ceroi				
	1			2	3	4	5	6
,	Crop			Seed per acre in sers	Percentage of failed area.	Total amount of seed sown in maunds	Net produce in maunds.	Net produce converted
Jowar Bajra Maize Mung Mash Moth Chaula Wheat Barley Gojra Gram Gochni	***			15 3 7 3 3 5 1 50 50 50 25 40	25 25 14 25 25 25 25 20 20 20 22 20	7,965 5,119 38 484 51 330 117 10,307 29,778 2,387 14,106 7,371	52,657 234,728 1,171 12,022 1,657 6,184 11,861 49,485 136,562 10,236 113,130 40,561	52,627 231,794 1,156 11,421 1,575 5,875 11,288 47,011 122,906 9,715 107,473 38,533

This gives a deficit of 73,215 maunds of food crops yearly. There 18, however, a large area of non-food crops, the total value of which, as taken from the produce estimate, is Rs. 3,98,292. In the above calculations half the value of the cane, and one-tenth of the value of the cotton have been deducted as part of the cost of production, and some further deductions are necessary on account of seed. This does not leave a very large margin to provide clothing and the necessaries of life, but the 'calculations can at best be only a rough guide . Unfortunately no figure of exports and imports are available, as the railway does not run through the tahsil, and consequently it is impossible to apply any test to these assumptions. The people do not as a rule, either in their dress or style of living, give any indication of prosperity, and except in the canal tract, there is a good deal of poverty. To some extent the constitutional thriftlessness of the Meo is responsible for this, as even with a light assessment and a hardy soil, such as is found in the Taoru Circle, he cannot be said to be really prosperous, but there can be no doubt that the recent dry cycle has had a great effect on the welfare of the tahsil as a whole, and of the Dahar Circle in particular This is important in this connection, as the Dahar Circle is the only one which is capable of showing any great variations in oropping according to the state of the seasons. While, therefore, admitting the general poverty of the tahsil, I do not think that the position is quite as bad as these figures make out, and under normal conditions the tabul may be assumed to be self-supporting.

## PART III.

#### CHAPTER I.-THE ASSESSMENT.

The leading statistics relating to the assessment of the various circles are summarised in the accompanying table. There is nothing that calls for special mention here, but where necessary it will be referred to in the following paragraphs dealing with the proposals for the various circles.—

Percentage of cultivated to total area	Percentage of cultivated to total area Increase of cultivation per cont Percentage of cultivation per cont Increase of cultivation per cont Increase of cultivation per cont Percentage of cultivation per cont Increase of cultivation per cont Increase of cultivation per cont Increase of cultivation per cont Increase of cultivation per cont Increase of cultivation per cont Increase of cultivation per cont Increase of cultivation per cont Increase of cultivation Increase Increase of cultivation Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase In	The second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of			7	
Percentage of caltivated to total area	Percentage of cultivated to total area	1	2	3	4	5
Increase of chala irrigation to total cultivation	Percentage of chalt tringation to total cultivation   7		Taora	ļ		
Percentage of cultivated area sold since cettlement   Average rale price per acre in even rupees   Average rale price per acre in even rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money per acro in rupees   Average consideration money   Average consideration money   Average consideration money   Average consideration money   Average consideration money   Average consideration money   Average consideration money   Average consideration money   Average consideration money   Average consideration money   Average consideration money   Av	Percentage of cultivated area sold since settlement   Average sale price per acre in even rupees   Average sale price per acre in even rupees   Average of cultivated area under mortgage   24   38   24   29   57   36   38   24   29   38   24   29   38   24   29   38   24   29   38   24   29   38   24   29   38   24   29   38   38   24   29   38   38   38   38   38   38   38   3	Increase of cultivation per cont Percentage of chahi irrigation to total cultivation  Dr. nahri do, do Increase of irrigation per cont Percentage of abi to total cultivation  Do dahri do  Do superior birani to total cultivation  Do, bhar to total cultivation  Increase per cout of wells in use  Do of hos Percentage of sweet wills (excluding dhenklis) Average depth to water of pakka wells in feet  Do of water do  Average area irrigated per pakka hao in acres Decrease per cout of bullocks Increase or decrease per cent of ploughs Cultivated area per plough in acres Increase or decrease per cent of population  Incidence of rural population per square mile of cultivation Average area in acres per owner Perceatage of good cultivators, "Jats and Ahira," to total	1477 193 131 195 195 195 195 195 195 195 195 195 19	6 1 97 8 29 45 10 171 26 18 15 2 22 8 9 7 7 9 7	1,189 1,189 1,189 106 24 48 29 26 22 21 16 48 417 7	71 398 4 12 553 11 105 44 73 27 21 3 8 421 421 8
Transmit at at the transmit at at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit at the transmit	real (ar' brigg at revease ry'e)	Percentage of cultivated area sold since cettlement Average rale price per acre in even rupees Percentage of cultivated area under mortgage Average consideration money per acre in rupees Amount of presented debt in rupees Percentage of above on land revenue (1905-06)  Printing to cultivated area— Irrigated Dibri Superior barni Bhur Total  Percentage of failed to matered crops— Irrigated Unitrigated Unitrigated  Consider of area cultivated by owners  to deceanised mill paying cash	41 24 40 2,70,025 712 57 46 125 971 1071 9	29 38 41 3,88,069 881 26 126 78 80 163 28	57 24 58 2,50,013 219 51 124 81 99	26 90 46 9,09,007 361 52 27 126 861 731 21

The circle contains 81 villages, and at present is doing very well.

The coil, though light, is wonderfully fertile, as the cooping returns electly about the other hand no first class crops are produced, and I have assumed that you'll thoughout Taking the various rolls in detail, the click is fair and change a starfactory development, the value of knobcha wells having been analy

demonstrated. Although the recent drought may have been responsible for some of this development originally, the system is now so popular that I do not think there need be any fear of a contraction of irrigation in the future: on the contrary it is more probable that after settlement there will be a further increase, as the tendency is for irrigation to be rather restricted during a settlement, in order to avoid a chahi assessment. The position of the flooded lands has now greatly improved. The drainage from the hills has been controlled by some excellent bunds, with the result that in place of rather precarious dahri, the circle now contains good abi. In the statistics in the previous paragraph the two soils have been classed together, but the superiority of the abi is shown in the following comparison of their matured areas, which put in the form of percentages are—

This is perhaps an exaggeration of the difference between the two soils. but there can be no doubt that the abi is distinctly the better soil of the two. For this reason I propose to retain the present system of levying abiana from these bunds. Not only will this serve to equalise the difference between the flooded soils, but in the case of land that may be brought within the operation of the bunds in future it will be useful The bund system is capable of very great improvement, and if this be carried out, the flooded area will be substantially increased. Finally the operation of properly controlled floods is extremely beneficial to the light Taoru soil, and this advantage over the dahri land can be best accounted for by a fluctuating rate 'The present abiana rate is 8 annas per pakka bigha. The rates proposed by Diwan Tek Chand in his No 207 L F, dated 30th April 1904, to the Commissioner Delhi Division, which was forwarded to Government with Commissioner's No 208, dated 9th May 1904, were Re. 1 per pakka bigha for all the bunds in the Nuh Tahsil, but these proposals have not as yet been put into force From the produce estimate it will be seen that the difference between the value of a matured acre of abi and barani land is Re 1. As I am proposing to assess abi land at a higher fixed rate than baram, I think that a fluctuating rate of 8 annas per pakka bigha, or Re 0-12-9 per acre will In other respects there has not been any great development since be sufficient Population has increased, but there is not a corresponding last settlement increase in cultivation, while bullocks and ploughs have actually decreased. The results of the produce estimate and cash rents indicate that a large increase can be taken, but there are the following reasons for caution. In the first place the circle has always been lightly assessed in the past. It is natural to compare the rich soil below the hills with this sandy table-land, and fix much lower rates for it than for the Dahar Circle This is to some extent incorrect, as the circle, though lighter, is far more secure than the heavy clay and loam On the other hand the circle is divided up into small estates owned by Meos, who never manage to accumulate any wealth, and cannot stand any very great increase in their assessment

The rates adopted by Mr. Channing and Mr. Wilson are compared with those deduced from the produce and cash rent estimates in the following statement:—

1	2	3	4	5	6	7	8	9
	Chahr.	Abı dahrı	Narmot.	Magda.	Bhur.	Rate on total cultivation		Actually assessed.
Mr Channing Wilson Produce estimate Gash rents	Rs a 2 8 2 1 2 5	1 8	1 2	0 14	0 9 0	1 7 5	59,900	

The very high rate of batai is responsible for the difference between the jama according to the produce estimate and that given by the cash rents. In Section 25 of the Nuh Report Mr. Channing notes that only 3 per cent of the truancy lands were held on kind rents, the usual rate being one-third. I do not know what has been responsible for the change, but the universal rate throughout the whole tabsil is now one-half. The mea under cash rents is not large, but the proportion has risen from 7 per cent to 17 per cent. of the cult vived area, so the rents may be taken to be fairly representative, especially as the largest number are on the characteristic magda soil of the circle.

The rates which I propose are-

	1				2	3	4	5	6
	<b>5</b> 01	Ĭ			Rate	Area	Demand	Total	Incidence
***************************************					Bs a p	Acres	Re	Rs.	Rs a. p.
Chahi pakka	•	1.3			2 4 0	3,897	8,768	4++	
n kacheli	٠, ۵	• •	•••	••	1 12 0	1,488	2,601	**	
Flooded,		•••	••	<b>4</b> •	140	1,685	2,106	11	
Bame		***	•	**	8 15 0	26,149	24,515	***	***
Bhar	4++		••	• • ;	086	7,946	4,221	42,214	1 0 5

This is an increase of 14 per cent. on the present assessment. It is 82 per cent. of the cash rent estimate, and 71 per cent. of the half-net-assets as given by the produce estimate after making the necessary deductions. It is only slightly more than one-eighth of the gross produce, and may therefore be considered to be rather light, but the circle is not wealthy, and I think that the increase is quite as much as can safely be taken. The proportions of the proposed retes agree fairly closely with those of the cash rents. The chahi rate appears to be high, but the area cash rented is very small, and is hardly representative of the chahi of the circle. Moreover, the kachelia chahi is being assessed at a lower rate on account of its instability, so that there is a fair difference between the proposed rate and the rent actually taken. My village assessments in the villages which I have inspected for assessment give a total of Rs. 19,147 against an existing demand of Rs. 16,720, or an increase of almost exactly 11 per cent.

The Palue C. de found it in a very prosperous condition. The reductions granted by Mr. Barnes at the previous settlement had enabled the tract to recover from the poverty in which he had found it, and a series of good harvests still further improved the position. The danger which his Channing had to face was that owing to excessive flording a great deal of the dahiri area was hable to submersion, and the part of good rainfall large remissions of revenue were necessary. The part meet effected by this was the Kotila shill land, which for three years had been almost totally submerged. In order to cope with this Mr. Channing proposed that this area should be given a fit etuating assessment, and this was event ally cancioned. Mr. Wilson, when rewring the assessment, eams to the corelaster that the rulei required further modification in favour of the rulmingary and accordingly proposed the rulei contained in paragraph 62 of the Revision Report, which are still in force. The number of villages affected by this arrangement is severe, and the total area under fluctuating assessment is now 4,152 persist. A shirt medication of the fixed and fluctuating arranging in according to according to restail the rules of the people, but the difference will be according to according to the found of the restailed and fluctuating arranging to according to according to restail the rules of the people, but the difference will be according to according to according to the rules of the people, but the difference will be according to according to the rules of the people, but the difference will be according to the rules of the people, but the difference will be according to the florest can be retailed after the renot on of Government to the florest can be retailed after the renot on of Government to according to the rules of the people, but the difference will be according to the florest can be retailed after the rules of the people according to the rules of the rules of the rules of the people according to the rules of the rules of the ru

the general proposal has been obtained. The position has of course entirely altered since settlement owing to the way in which the Kotila Jhil has been drained, but the effect is the same; where formerly they suffered from submersion, drought now causes at least as much distress. All the villages under the fluctuating assessment are wretchedly poor, and the appended statement will serve to show how the area capable of cultivation varies according to the seasons. I do not propose to make any change in the existing arrangements as there is no justification for any increase in the rate to be applied to the matured area, while the fluctuations of cultivation indicate that a fixed assessment is not advisable. In this connection I would refer to paragraph 46 of the Firozpur Report. As in that tahsil none of the villages were ready for inspection, but as far as I can see no change in the rates or rules is called for. With regard to the land, which, though coming under the fixed assessment, was liable to submersion, Mr Channing proposed that if in any village 10 per cent. of the lands were submerged in one harvest the revenue demand on the submerged area should be remitted. This rule is I think no longer required. Under the present conditions it seems likely that only a very small area is liable to be submerged in a year of ordinary rainfall, and in an abnormal season it is better that the Deputy Commissioner should be free to use his own discretion as to remission without being tied down by any rules as to the proportion that must be submerged before relief can be claimed. Moreover, the difficulty in the future is likely to be one of drought rather than of overflooding, and the 10 per cent rule seems unnecessary, but the importance of careful revenue administration cannot be too strongly emphasised. Mr Channing made a similar remark in Section 220 of the Settlement Report, but his idea that the tract requires a heavy assessment does not seem to have been borne out by the fiscal history The great prosperity that attended the reduced assessment imposed by Mi Barnes shows either that the people will work with a light assessment or else that the ideas of what constituted a light assessment were wrong Centainly Mr. Channing's demand was extremely heavy It was based on the results of a produce estimate which contained the cultivated area of a single year admittedly far above the average, and though the commutation prices appear to have been moderate the outturns assumed—especially on the large flooded area—were somewhat high. made considerable reductions at revision but even this demand has proved too heavy for the people to pay, and there are now unmistakeable signs of distress. Cultivation had reached its limit at last settlement, and though population has not increased to any great extent both mortgages and sales are far too common, and the unencumbered area is terribly small Ploughs and bullocks have decreased, and there is a general state of indebtedness, from which the people will take a long time to recover. The rates adopted by Mr Channing and Mr Wilson are compared with those deduced from the produce and cash rent estimates in the following table .-

1	2	3	4	5	6	7	
					4	<b>!</b> • !	8
_	Chahı	Flooded	Chiknot and narmot	Magda	Bhur.	Rate on total cultivation	Jama
R	gaap	Rs a p	Rsap	Rs, a p	Rsap	Rs a p	Rs
Mr Channing	280	2 0 0	1 6 6	1 4 0	0 10 6		
Mr Wilson	300	1 12 0	150	120	070		
Produce estr- mate Cash rents	173	176	1 8		 0 15   9	2 2 5	1,26,093 1,11,785

# Statement of the cultivated and matured areas in the villages now paying fluctuating assessment.

1	2	3	4	5
Year	Fluctuating area	Area matured	Area failed	Total area sown
Last Settlement	6,812	4,355	tes	7,935
1883-84 1884-85 1885-86 1886-87 . 1887-88	7,908 7,908 7,910 7,917 7,000	5,795 2,981 234 298 417	35 9 54	5,798 2,981 269 307 471
Total of five years	38,643	9,725	101	9,826
Average of five years	7,729	1,945	20	1,965
1888-89 1890-91 1891-92 1892-93	1,355	1,193	77	1,270
	7,326	6,582	453	7,035
	7,415	3,820	183	4,0v3
	7,463	6,891	154	7,045
	7,397	3,694	144	3,838
Total of five years .	30,956	22,180	1,011	23,191
Average of five years	6,191	4,436	202	4,638
1893-94	7,398	2,894	85	2,979
1894 95	7,205	2,203	86	2,289
1895 96	7,029	956	674	1,630
1896-97	7,155	1,786	1,046	2,832
1897-98	7,324	4,574	1,008	5,682
Total of five years	36,111	12,413	2,899	15,312
Average of five years	7,222	2,483	580	3,062
1898 99	7,362	553	1,101	1,654
1899-1900	7,378	265	1,904	2,169
1900-01	7,270	2,541	1,129	3,670
1901-02	7,274	1,060	1,236	2,296
1902-03	7,149	1,579	774	2,353
Total of five years	36,433	5,998	6,144	12,142
Average of five years	7,287	1,200	1,229	2,428
1908-04	7,165	2,242	1,205	3,447
1904-05	7,162	5,269	915	6,184
1905-06	7,187	569	2,387	2,956
Total of 23 years	163,657	58,39 <b>6</b>	14,662	73,058
Average of 23 years	7,116	2,539	637	3,176

As elsewhere in this tabsil the difference between the jama given by the produce estimate and that of the cash rents is due to the high rate of batai which prevails. The cash rent jama is that given after making the deductions for non-realisation. The extraordinary similarity of all rents except those on bhur shows that at present no difference is being recognised between the various classes of soil. In the case of the flooded lands I think that this is only temporary. When seasons are bad the first land to suffer is the heavy abi or dahri, which deprived of its normal moisture is practically useless. The result of the recent bad harvests has been to diminish the value of this land, but there can, I think, be no question of its real superiority. To a less extent At first sight it would seem that in a tract where the same is true of the chahi the wells are purely protective a series of dry years would tend to increase their value, and this would be the case here but for the fact that the water as a rule so salt that its continued use is most harmful to the soil. Moreover, owing to the poverty of the people, the expense of working a well makes it unpopular at the present time While therefore, admitting the similarity between the two cases I should say that the depreciation in value of the chahi land will be more lasting than in the case of flooded lands, as in the former instance the recovery depends upon the recovery of the circle which is likely to be very slow: on the other hand the value of flooded land will go up at once with the advent of one or two good harvests, and this will be the chief factor in restoring the general prosperity of the tract. Accordingly in my rates I have recognised no superiority of well lands over abi and dabri, but have not maintained the close similarity between the various soils that is indicated by the cash rents. I propose to assess all abi land to a fixed assessment, and not levy any abiana in this circle I except from this rule the by sluices on the Khalilpur and Qutabgarh Bunds, which will ordinarily pay a barani assessment, but when flood water is received a fluctuating rate will be charged For these lands and any others which, under the new rules that are being proposed, may become hable to pay a fluctuating rate, I propose that a rate of 10 annas per pakka bigha be sanctioned. This is very nearly the amount of the difference between the values of a matured acre of flooded and baram land as shown in the produce estimante, and is as high as I think can fairly be imposed.

The rates which I propose are—

220 10000 110102	Propose				
1	2	ક	4	5	6
Soil	Rate	Aren	Demand	Total	Incidence
Ohahi and Flooded Barani Bhur	Rs a p 1 7 0 1 3 6 0 10 0	Acres 29,314 39,698 8,473	Rs 41,995 48,381 5,296	Rs 95,672	Rs a p

The new demand is 81 per cent of the cash rent ostimate and 73 per cent of the half-net-assets as given by the produce estimate. It is almost exactly one-seventh of the gross produce, which under present circumstances is fully as high a proportion as can be taken from the circle. My assessments in the villages which I have inspected come to Rs. 35,261 against a present demand of Rs. 36,587, or a decrease of 4 per cent against one of 6 per cent according to my proposals.

42. This circle contains 99 villages Like the Dahar Circle it was heavily assessed at last settlement, but fortunately, owing to the introduction of canal irrigation, it is in a most flourishing condition now, though of course the area which is not served by the canal presents a marked controduction of remainder. The soil is a fair level loam, and in a good year crops are nearly equal to those of the Dahar Circle. The canal extreme edge of the distribution area, and consequently there is of water. Very few cases of water-logging have come to the soil has undoubtedly been weakened by irrigation in pla difficulty in assessing the tract now is that the unirrigated area

the best at last settlement and so while the introduction of the canal would have made the assessment light on that portion in any case, we find that the prosperous villages were more lemently freated than those which have not as yet benefited by the canal at all. The statistics of the circle as a whole do not emphasise this position, and I have therefore drawn attention to it here, as it has a very important bearing on the amount of increase that can safely be taken. Apart from canal irrigation the circle is singularly devoid of advantages. The wells are merely protective as in the Dahar Circle, and the water being generally salt they are little used. There is no flooded land, and very little benefit has been derived from the bunds. It is therefore hard to imagine a greater contrast than that presented by the two parts of this circle. Certainly there is not the same poverty as exists in the Dahar Circle, because the people as a whole are more thrifty, but on the other hand the canal villages are extremely well off, and could have afforded to pay a higher revenue than has been exacted. The rates adopted by Mr. Channing and Mr. Wilson are compared with those deduced from the produce and cash rent estimates in the following statement.—

1			2		3		4		5		6	=	7		8		9
		C	hah	1	Nahr	1	Flood		Chukn and Narmo		Magd	D.	Bhur	.	Tot culti tio	<b>⊽</b> 0,-	Jama
Mr Channing ,, Wilson Produce estimate Cash rents	•••	Rs 2 1	10 12	p 0 0	Rs 1	n 6	Rs 1 1	n 12 4	1	a 4 4 6	1	n 1 0	Rs a. 0 10 0 6 0 11	P 6 0		9 9 5	1,05,772 1,00,444 1,51,408

The present assessment is Rs 1,00,360, and the increase given by the kind and cash rent jamas is 56 per cent and 17 per cent respectively. As pointed out in paragraph 35 the nahri cash rent rate is unreliable, and should be increased to about Rs. 2-4-0, making the total jama Rs 1,37,000, and giving an increase of 37 per cent. The difference between the two jamas may then be attributed entirely to the high rate of batar. I have made no difference between the abi and unrigated rates, as the area of abi land is too small to afford any real indication of its letting value. The unirrigated rates may be compared with those in force in the Dahar Circle. The higher chahr rate does not indicate superiority in the well irrigation, but is the result of the greater prosperity of the circle, which allows advantage to be taken of the wells to a degree impossible there

Turning to the actual assessment, I must begin by noting that I propose to large affect assessment on canal lands, as was done in the Palwal Tahsil. The paint has been discussed in paragraph 41 of that report, and here too I shall make no distinction between "lift" and "flow" irrigation for the same reasons as were given there. The difficulty of taking a full increase from the canal vilages has already been touched upon. Most of the canal area was lemently assessed at unirrigated rates, and no attempt has been made to give Government a share in the increased profits that have accrued for some years past. Consequently in some cases a full half net assets demand would entail a perfectly impossible increase in the revenue. Probably a short term assessment would be best for this tract, but as the orders of Government have already been asked for on this point there is nothing further to say. If progressive assessments are sanctioned, the necessary proposals will be put forward later.

The rates which I propose are-

	THE LAVES WI	TICH I PIO	hose are	,			
	1	2	3	4	5	6	7
	Soil	Rate	Area	Demand	Total	Incidence	i EMARKS
Chahi Nahri Barani Bhur		Rs a p 1 8 0 1 11 0 1 3 6 0 10 0		39,273 63,321		Rs a p	Barani includes 1,028 acres of flooded land

This gives an increase of 14 per cent. My village assessments in the villages inspected by me give a total of Rs. 48,743 against a previous assessment of Rs. 43,983, or an increase of about 11 per cent. I had originally proposed an increase of only 12 per cent., but the present rates have been arrived at in consultation with Mr. Gibson, with whose suggestions I entirely agree. I do not think that the village notes require revision at present, but if after inspecting the remaining villages this is found necessary, I do not anticipate that there will be any difficulty in making the slight enhancement. The new demand is 83 per cent of the corrected cash rent estimate and 73 per cent. of the half net assets as given by the produce estimate. It is over 97 per cent of the actual cash rent jama, and if there were the slightest fear that the nahri cents represented the true state of things, it would be impossible to approach so closely to it. This point has, however, been fully discussed, and I will merely repeat that I think that the corrected estimate is as near the truth as one can hope to get with an assumption as against actual facts.

- 43. By these proposals the fixed demand of the tahsil is raised from Rs. 2,38,113 to Rs 2,52,093, giving an increase of nearly 6 per cent. The incidence on the cultivated area is Re 1-3-7 per acre. I have not included the assessment of the fluctuating area, as it is impossible to estimate with any accuracy what the yearly collections from it will be. At present owing to the dry seasons, the demand rules very small. However as no change is being proposed in the existing arrangements, it would probably be better to omit it from our calculations in any case.
- Before leaving the question of assessment it will be as well to summarise the effect of the new proposals Comparison between the old and new methods of assessing abi land. regarding the method of dealing with From the attached statement of the receipts of abiana from bunds in the Nuh Tahsil, it will be seen that the average receipts amount to Rs 2,826 per annum. The abi area in the Dahar Circle is now 6,615 acres (Statement II), and according to the new proposals this will be assessed at Re. 1-7-0 per acre, or Re. 0-5-5 per acre above the all-round baranı rate. This gives a total advantage of Rs. 2,239. In the Taoru circle 1,088 acres are assessed at Re 1-4-0 against an all-round barani rate of 13 annas, giving a total advantage of Rs 476. To this must be added the abiana from the Taoru bunds, which according to the statement comes to Rs. 582 per annum. The total advantage according to the new system is therefore Rs 3,297, or a net advantage of Rs. 471 over the present abiana system. As a matter of fact the advantage is probably even greater, as the amount of abiana collected of recent years has been much smaller, and the average collection includes some of the first years, when the flooded area was abnormally large. Even granting that the existing position is principally due to the recent drought, it must be remembered that for some time abiana was levied off dahri land, and in fact this practice has only recently been stopped. Under these circumstances we are probably justified in assuming the net advantage under the new system will not be less than Rs 471, and may well be more That it will be a popular departure with the people I have no doubt, as in the Dahai Circle the abiana system is hated, and the almost universal request has been that it may be abandoned.

Statement showing the annual collections of abrana in the Nuh Tahsil

14		<b>В</b> ямля в		The Avernge collection is	кв 2,826								•					
13		Total	Rs a p	6,838 13 2 4	9,144 14 7	2,182 11 6	8,849 9 2	11 7 198	782 10 4	10 0 0	3,869 15 (	591 6 2	8,092 7 3	194 13 10	751 8 م	388 9 7	36,738 14 10	2,820 1 2
13		Akorn	Bs. n p	503 13 0	69 3 3		502 12 O				45 12 0	20 12 6	24 13 8	45 9 6	28 13 2	20 4 4	1,651 13 11	127 1 3
11		Paln	Кв а р	3 7 8			11 6 6	17 11 6	•		10 7 3		1 14 5			2 11 3	47 10 6	3 10 8
10		Palla,	Ив в р	9 11 3	1 6 3		1490	16 6			13 15 9	0 10 4	6 5 6			0 1 7	63 2 2	1 13 8
6		Babras	Rs a p		9 2 6		<u>.</u>	•			118 7 5	44 14 3	80 14 6	0 10 4	28 8 9	12 1 8	824 11 8	24 15 8
8	NAMES OF BUNDS	Rahorı	Rs a p		•	•		•	51 13 0		110 15 7	193 5 3	255 1 5	30 8 0	28 9 10	30 5 3	630 11 4	18 8 8
1-	NAMES	Dhulavat	Rs a p	55 5 6	9 0 08	56 13 0	68 15 0	0 27 4 6	28 11 5		40~11 6	47 10 0	15 10 0	35 4 7	63 9 0	22 7 1	•	44 0 5
9		Taoru	Ro a. p	•	467 10 0	126 7 6	100 2 9	158 13 2	102 6 8		203 3 6	200 1 3	233 3 3	48 11 8	30 1 9	153 2 8	2 1,935 15 0	G 11.8 14 E
13		Taoru Bahora road	Rs a p		863 0 3	365 4 0	375 8 3	625 9 6	413 12 0	10 0 0	421 2 9	266 8 5	6 11 fef	25 11 0	174 13 6	122 13 9	4,118 15	316 13
4		Khalılpur	R, a, p	33 12 3	247 15 n	726 5	303 15 0				651 5 4	166 15 9	850 9 10	8 6 9	43 14 2		2,538 1 1	101 13 10
3		Qatabgarh	Rs a p		3,436 14 7	601 8 0	2,742 13 11				1,664 4 5	78 5 3	919 5				9,413 3 11	720 6 6
63		Kotla.	Re a p	5,232 11 0	3,969 9 6	300 6 0	4,123 6 0	15 10 8	75 14 5		560 10 7	33 3 2	710 14 2		351 2 1	25 10 2	15,417 2 7	1,185 15 0
1		) Ein		1603-01	1801-95	1895 96	1800 97	1807 98	1808 00	1899 1900	100001	1001 03	1002 03	10 8001	1904 05	1905 06	Total	Averago

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### GHAPTER II —MISCELLANEOUS

45. Owing to the peculiar system of irrigation in force in this tabul it is difficult to put up any proposal for protective leases by which the cultivator can be adequately recouped. No definite scheme can be made until orders are received upon the proposals made in the Rewari Report, but the following details will suffice to show what the problem in the Nuh Tahsil is:—

Edition of part if it					
1	2	3			
Circle	All-round beram rate	Government share of the profit due to irrigation			
Taoru	Rs a p 0 13 0	Rs a p 2 0 0			
Dahar	1 1 7	1 0 0			
Baugar	1 2 4	1 0 0			

Where there is so little regular chahi it is impossible to make any difference between the ordinary barani crops and those grown without irrigation on chahi land. Indeed in some places in the Dahar and Bangar Circles the effects of irrigation are to injure the succeeding dry crops, and this counterbalances any advantage of situation or manuring that would otherwise have to be taken into account

The results of the calculation therefore are as follows .-

1	2	3	4 *		
Circle	Area in acres irrigated per pacca well, Statement III, columns to and 33	Owner's annual net profit	Cost of pacea well		
Taoru .	75 0	Rs 30	Re. 750		
Dahar	4월	9	450		
Bangar	6	12	750		

46 The rules in Financial Commissioner's Circular letter No 5890, dated 30th September 1904, as amended by Financial Commissioner's Circular Memo No. 1, dated 10th April 1907, are suitable and should be extended to this tahsil. In the Taora Circle where irrigation is regular and the chahi land valuable, it is probable that a number of villages will distribute their revenue on soil rates. In the other circles the tendency appears to be to an all-round rate.

47. The various quo tions arising out of canal irrigation have been dealt with in the Palwal Report. The dealt with in the Palwal Report. The rules in force should be the same as far as possible over the whole area irrigated by the Agra Canal. Certainly in the Nuh Tuhsil there are no special features that call for any separate treatment. I have elsewhere stated that in my opinion a short term assessment would be better than progressive assessments in certain villages, but if the latter system is adopted a separate scheme will be submitted as soon as all the villages have been inspected.

48 In paragraph 52 of the Firozpur Report detailed proposals for rules to regulate the assessment of abr land have been submitted. It is advisable to have only one set of rules for the district, and I have nothing to add to those

proposals. But assuming that they are sanctioned, it will be necessary to make certain exceptions in the Nuh Tahsil. I therefore propose to make the following addition to Rule 1 (a) —except (i) the land classed as abi in the Taoru Circle, and (ii) the land inside the Khahilpur and Qutabgarh bunds in the Dahar Circle, which is irrigated by means of sluices. As regards (b) it should be laid down, that the chahiland in the village of Qutabgarh, which is situated inside the bund is not referred to in this sub-section. This explanation is necessary, as the sluice is always opened at the request of the people, and the water has to pass over land, which is protected by the wells, though the latter are never used in a year when the flooding is sufficient. The position of this land will be taken into account in the village assessment and no abiana should be levied.

Term of settlement and date of imposition of new demand

Term of settlement and date of imposition of new advisable to fix the same term here as well, but no orders are required on this point at present. The existing settlement expired with the rabi instalment of 1907. In paragraph 53 of the Firozpur Report it has been shown that there is no possibility of the new demand being imposed before Kharif 1908, and provided that orders are received in time, that date will be suitable for this tabsil also.

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50. The sanctioned cesses are-

Local rate Lambardari	•	•		_	5	4
Dampardari			Total	 13	0 5	_

These should be continued.

Points on which orders are required

51. The points upon which orders are required are—

- (a) The proposed rates and assessments including the method of assessing nahri and abi lands (paragraphs 40-42).
- (b) Adoption of the rules for the remission of the wet assessment when a well falls out of use (paragraph 46)
- (c) Adoption of the rules proposed in paragraphs 47 and 48 of the Palwal Report, if they or similar rules have been sanctioned (paragraph 47)
- (d) Adoption of the rules proposed for lands flooded by water from bunds, but not classed as abi (paragraph 48).
- (e) Cesses (paragraph 49)
- (f) Date of Imposition of the new demand (paragraph 50)

Gurgaon

Dated 8th October 1907.

G M. BOUGHEY,

Assistant Settlement Officer